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OM nucleic - nucleic search, using sw model

Run on: June 15, 2003, 13:28:23 ; Search time 1452.41 Seconds

(without alignments)
10479.665 Million cell updates/sec

Title: US-09-852-261-5

Perfect score: 523

Sequence: 1 ggaacggagagcgtctgcgg.....aaatcaccaagtaaacattc 523

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Listing first 45 summaries

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41: em_hcg_other:*

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	523	100.0	523	6	AX147746	AX147746 Sequence
2	523	100.0	523	6	AX300783	AX300783 Sequence
3	467.4	89.4	517	6	AX147742	AX147742 Sequence
4	467.4	89.4	517	6	AX300779	AX300779 Sequence
5	409	78.2	471	6	AX147754	AX147754 Sequence
6	409	78.2	471	6	AX300791	AX300791 Sequence
7	364.8	68.8	1536	10	BC012409	BC012409 Mus muscu
8	361.6	69.1	1298	10	RNIGF12	X06108 Rat mRNA (c
9	361.6	69.1	958	10	RNIGF11	X06107 Rat mRNA (c
10	358.4	68.5	710	10	RATIGF1A	M15480 Rat Insulin
11	356.8	68.2	539	6	AX147744	AX147744 Sequence
12	356.8	68.2	539	6	AX300781	AX300781 Sequence
13	349.4	66.8	651	10	MMIGF1B	X04482 Mouse mRNA
14	336	64.2	432	4	AF022961	AF022961 Oryctolag
15	334.4	63.9	7260	6	AX375028	AX375028 Sequence
16	334.4	63.9	7260	6	AX411095	AX411095 Sequence
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18	332.8	63.6	666	6	A29119	A29119 H.sapiens I
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ALIGNMENTS

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RESULT 1
AX147746
LOCUS AX147746
DEFINITION Sequence 5 from Patent WO0136483.
ACCESSION AX147746
VERSION AX147746.1 GI:14346791
KEYWORDS
SOURCE
ORGANISM
rabbit.
Oryctolagus cuniculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
REFERENCE
1 (bases 1 to 523)
AUTHORS Goldspink,G.R. and Johnson,I.R.
TITLE Use of the insulin-like-growth factor 1 isoform mgf for the
treatment of neurological disorders

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JOURNAL Patent: WO 0136483-A 1 25-MAY-2001;
University College London (GB)
Location/Qualifiers
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BASE COUNT 150 a 130 c 139 g 98 t
ORIGIN

Query Match 89.4%; Score 467.4; DB 6; Length 517;
Best Local Similarity 96.2%; Pred. No. 3.4e-133;
Matches 501; Conservative 0; Mismatches 16; Indels 4; Gaps 2;

QY 1 GGACCGGAGACGCTCTCGGCTGCTGAGCTGTGATGCTCTTCACTTCTGTGTGAGAC 60
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DB 477 CAAAGATGCAATTTCCCAATGAATAATACAGTAACAT 517

RESULT 4
AX300779 517 bp DNA linear PAT 30-NOV-2001
LOCUS AX300779
DEFINITION Sequence 1 from Patent WO0185781.
ACCESSION AX300779
VERSION AX300779.1 GI:17382060
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
1 Goldspink, G.D. and Terenghi, G.B.
AUTHORS
TITLE Repair of nerve damage
JOURNAL Patent: WO 0185781-A 1 15-NOV-2001;

University College London (GB) ; East Grinstead Medical Research
Trust (GB)
Location/Qualifiers
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BASE COUNT 150 a 130 c 139 g 98 t
ORIGIN

Query Match 89.4%; Score 467.4; DB 6; Length 517;
Best Local Similarity 96.2%; Pred. No. 3.4e-133;
Matches 501; Conservative 0; Mismatches 16; Indels 4; Gaps 2;

QY 1 GGACCGGAGACGCTCTCGGCTGCTGAGCTGTGATGCTCTTCACTTCTGTGTGAGAC 60
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RESULT 5
AX147754 471 bp DNA linear PAT 08-JUN-2001
LOCUS AX147754
DEFINITION Sequence 13 from Patent WO0136483.
ACCESSION AX147754
VERSION AX147754.1 GI:14348552
KEYWORDS
SOURCE rabbit.
ORGANISM Oryctolagus cuniculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.

REFERENCE
1 (bases 1 to 471)
AUTHORS Goldspink, G.R. and Johnson, I.R.
TITLE Use of the insulin-like-growth factor 1 isoform mgf for the
JOURNAL treatment of neurological disorders

JOURNAL Patent: WO 0136483-A 13 25-MAY-2001;
University College London (GB)
FEATURES Location/Qualifiers
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BASE COUNT 132 a 118 c 131 g 90 t
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Query Match 78.2%; Score 409; DB 6; Length 471;
Best Local Similarity 90.1%; Pred. No. 3.8e-115;
Matches 471; Conservative 0; Mismatches 0; Indels 52; Gaps 1;

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DB 429 CAAGATGGCATTTCGCCCAATGAATACCAAGTAACATTG 471

RESULT 6
AX300791 471 bp DNA linear PAT 30-NOV-2001
LOCUS
DEFINITION Sequence 13 from Patent WO0185781.
ACCESSION AX300791
VERSION AX300791.1 GI:17382072
KEYWORDS
SOURCE
ORGANISM
Oryctolagus cuniculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus;
REFERENCE
1 Goldslink, G.D. and Terenghi, G.B.
AUTHORS
TITLE Repair of nerve damage
JOURNAL Patent: WO 0185781-A 13 15-NOV-2001;

University College London (GB) ; East Grinstead Medical Research
Trust (GB)
FEATURES Location/Qualifiers
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Query Match 78.2%; Score 409; DB 6; Length 471;
Best Local Similarity 90.1%; Pred. No. 3.8e-115;
Matches 471; Conservative 0; Mismatches 0; Indels 52; Gaps 1;

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DB 241 ATGCCCAAGACTCAG----- 255
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QY 481 CAAGATGGCATTTCGCCCAATGAATACCAAGTAACATTG 523
DB 429 CAAGATGGCATTTCGCCCAATGAATACCAAGTAACATTG 471

RESULT 7
BC012409 1536 bp mRNA linear ROD 07-AUG-2002
LOCUS
DEFINITION Mus musculus, Similar to insulin-like growth factor 1, clone
MGC:18617 IMAGE:4194295, mRNA, complete cds.
ACCESSION BC012409
VERSION BC012409.1 GI:15214568
KEYWORDS
SOURCE
ORGANISM
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 Strausberg, R.
AUTHORS
TITLE Direct Submission

453 AGAAGGAAAGGAACTACATTTCAGAACACACCTAGAGGACCTGACGACCTA

Dd 277 AGGGGCTTTACTTCAACAGGCCACAGGGCTATGGCTCCAGCATTCGAGAGGGGCGCCACAG 336

121 ACAGGCATCGTGGATGAGTCTGCTCTCCGAGACTGTGATCTGAGGAGGCTGCAGATGTAC 180

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Db	457	ATGCCCAAGACTCAGAAAGTCCAGGCCCTATCGACACACAGAAAAAGAAAGCTGCAGAG	516
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LOCUS	NR0171	1.0			
DEFINITION	INSULIN-LIKE GROWTH FACTOR I				
VERSION	1.0				
KEYWORDS					
SOURCE					
ORGANISM					
REFERENCE					
AUTHORS					
TITLE					
JOURNAL					
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ORIGIN	BASE COUNT	260 a	246 c	209 g	243 t	
Query Match	69.18;	Score 361.6;	DB 10;	Length 958;		
Best Local Similarity	82.88;	Pred. No. 1.9e-100;				
Matches 439;	Conservative	0;	Mismatches 84;	Indels 7;	Gaps 2;	
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Db	463	AGSGGCTTTTACTTCAACAAGCCCAAGAGATATGCTCCACAGCTTCGAGGGCAACCAAG	522			
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OY	301	AGAAGGAAGAGAGTACATTTTGAAGAACACACAAGTAGAGGAGTGACAGAAACAGAAGCTA	360			
Db	703	AGAAGGAAGAGAGTACATTTTGAAGAACACACAAGTAGAGGAGTGACAGAAACAGAAGCTA	762			
OY	361	CAGATGTAGAGAAACCCCTTCTGAGAGATGAGAAGAGACAGGCCACCGGAGACCTTTG	420			
Db	763	CAGATGTAGAGAGAGGAGCTCCCGAGGAACAGAAATGCCACGTCCGACAGATCTTTG	822			
OY	421	CTCTGCACAGTACTCTGTAACATTTGAATACCGGCA-----AAAATAGTTTATC	474			
Db	823	CTGCTTGAAGCAACCTGCAAAACATTCGGAACACCTGCCAAATATGATATGAGTTCAATA	882			
OY	475	ACATTTCAAGAT-GGCATTTTCCCCCAATGAATATACACAGTAACATTC	523			
Db	883	CCATTTCAAGATGGGCAATTTCCCTCAATGATAATACACAGTAACATTC	932			
RESULT 10						
RATIGFIA		710 bp	mRNA	1 linear	ROD 27-APR-1993	
LOCUS						
DEFINITION		Rat insulin-like growth factor I (IGF-1) mRNA, complete cds.				
ACCESSION		M15480				
VERSION		M15480.1 GI:204749				
KEYWORDS		growth factor; insulin-like growth factor.				
SOURCE		Rat (Sprague-Dawley) adult liver cDNA to mRNA, clone pRIGF-1-42.				
ORGANISM		Rattus norvegicus				
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
		Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;				
		Rattus.				
REFERENCE		1 (bases 1 to 710)				
AUTHORS		Roberts,C.T. Jr., Lasky,S.R., Lowe,W.L. Jr., Seaman,W.T. and				
		LeRoith,D.				
TITLE		Molecular cloning of rat insulin-like growth factor I complementary				
		deoxyribonucleic acids: differential messenger ribonucleic acid				
		processing and regulation by growth hormone in extrahepatic tissues				
JOURNAL		Mol. Endocrinol. 1 (3), 243-248 (1987)				
MEDLINE		88288198				
PUBMED		3453891				
COMMENT		Draft entry and computer-readable copy of sequence in [Mol.				
		Endocrinol. (1987) in press] kindly				
		provided by S.R.Lasky, 16-MAR-1987.				
FEATURES		Location/Qualifiers				
source		1..710				
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		/db_xref="taxon:10116"				
CDS		106..507				

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LOCUS	AX147744				
DEFINITION	Sequence 3 from Patent WO0136483.				
ACCESSION	AX147744				
VERSION	AX147744.1	GI:14346789			
KEYWORDS	.				
SOURCE	Norway rat.				
ORGANISM	Rattus norvegicus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				

QY	2	GGACGGAGAGACGCTGCGGAGCTGAGCTGGTGGATGCTCTTGAATTCGCTGCTGGAGAC	60
Db	1	GGACCGAAGACCTTTGCGGGGCTGAGCTGGTGGACGCTTTAGTTCTGCTGTGGACCA	60
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Db	61	AGGGGCTTTTACTTAAACAGACCCACAGCTCTATGGCTCCAGCAATTGGAGGGGACCACAG	120
QY	121	ACAGGATCGTGGATGAGATGCTGCTTCGAGGCTGTATCTGAGGAGGCTGGAGATGTAC	180
Db	121	ACGGGATTTGGATGAGTGTGCTTCGAGGCTGTATGTAGGAGGCTGGAGATGTAC	180
QY	181	TGTGACCCCTTCACCCCGGAAAGGACGCCGCTGCTGCTGCTCCAGCGCCACACGCAC	240
Db	181	TGTGTCCGCTGCAACCTTACAAAGTCAAGCTGCTTTCATCCGGGCCACGCACTGCAC	240
QY	241	ATGCCCAAGCTCAACAATATCAGCCTCCATCTTACCAAGAAATGAAAGCTCTAGAG	300
Db	241	ATGCCCAAGCTCAACAATATCAGCCTCCATCTTACCAAGAAATGAAAGCTCTAGAG	300
QY	301	AGAGGAAAGGAAAGTACATTGGAAGACACAGTAGAGGAGTGCAGAGAAACAGACTA	360
Db	301	AGAGGAAAGGAAAGTACATTGGAAGACACAGTAGAGGAGTGCAGAGAAACAGACTA	360
QY	361	CAGGATGTAAAGAACCCCTTCTGAGAGTGAAGAAAGACAGGSCACCAGGACCCCTTG	420
Db	361	CAGGATGTAAAGAGGAGCCTCCGAGGAAACAGAAATATGCACGTCACCGGCAAGATCCCTTG	420
QY	421	CTCTGACAGGTACTGTAACATTTGGAATTAACGGGCA-----AAAAATAAGTTTGATC	474
Db	421	CTGCTTGAAGCAACTGCAAAACATCGGACACCTGCCAAATATCATATGAGTTCATAA	480
QY	475	ACATTTCAAAAGT-GGCATTTCCCCCAATGAATATCAACAGTAACATTC	523
Db	481	TCATTTCAAGATGGGCAATTTCCCTCATATGAATAACAGTAACATTC	530

[illegible]

Db 439 AGAAGAAAGAGTAGTACATTTAGAAACACAGTAGAGAGTGCAGGAACAGACCTA 498
QY 361 CAGATGTAGAGAGACCTCTTCTAGAGAGTGAAGAGACAGGCCACCCAGAGACCTTTG 420
Db 499 CAGATGTAGAGAGACCTCTTCTAGAGAGTGAAGAGAGAGAGAGAGAGAGATCTTTG 558
QY 421 CTCTGCACAGTACCTGTAAACATTTGAAATACCGGCCA-----AAAATTAAGTTGATC 474
Db 559 CTCTGTAGAGAGACCTCTTCTAGAGAGTGAAGAGAGAGAGAGAGAGAGATCTTTG 618
QY 475 ACATTTCAAGAT-GGCATTTCCCAATGAAA 506
Db 619 ACATTTCAAGATGGGATTTCCCAATGAAA 651

RESULT 14
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LOCUS AF022961
DEFINITION Oryctolagus cuniculus insulin-like growth factor IB (IGF-IB) mRNA,
complete cds.
ACCESSION AF022961
VERSION AF022961.1 GI:2522201
KEYWORDS Oryctolagus cuniculus.
SOURCE Oryctolagus cuniculus.
ORGANISM Oryctolagus cuniculus.
REFERENCE 1 (bases 1 to 432)
AUTHORS Flekna,G., Brem,G. and Mueller,M.
TITLE Direct Submission
JOURNAL Submitted (05-SEP-1997) Institute of Animal Breeding and Genetics,
Veterinary University of Vienna, Veterinaerplatz 1, Vienna A-1210,
Austria

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source Location/Qualifiers
1..432
/organism="Oryctolagus cuniculus"
/strain="ZIKR hybrid strain"
/db_xref="taxon:9986"
/cell_type="primary liver cells"
1..432
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1..432
/gene="IGF-IB"
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/protein_id="AAB80950.1"
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BASE COUNT 105 a 126 c 115 g 86 t

ORIGIN
Query Match 64.2% Score 336; DB 4; Length 432;
Best Local Similarity 100.0%; Pred. No. 1.4e-92;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGACCGAGACGCTGCGGTGCTGAGCTGCTGATGCTTCACTTCTGTTGAGAGC 60
Db 97 GGACCGAGACGCTGCGGTGCTGAGCTGCTGATGCTTCACTTCTGTTGAGAGC 156
QY 61 AGGGGCTTTTATTTCAACAGCCACAGATACGGCTCAGAGCTGGAGGGAGCTCAG 120
Db 157 AGGGGCTTTTATTTCAACAGCCACAGATACGGCTCAGAGCTGGAGGGAGCTCAG 216
QY 121 ACAGGATGTGATGATGCTGCTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
Db 217 ACAGGATGTGATGATGCTGCTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 276
QY 181 TGTGACCCCTCAAGCGGCAAGGAGACCGCGCTCGCTCCGAGGCGCCACAGCGAC 240
Db 277 TGTGACCCCTCAAGCGGCAAGGAGACCGCGCTCGCTCCGAGGCGCCACAGCGAC 336

QY 241 ATGCCCAAGACTCAAAAGTATCAGCTCCATCTACCAACAAGAAATGAGTCTCAGAG 300
Db 337 ATGCCCAAGACTCAAAAGTATCAGCTCCATCTACCAACAAGAAATGAGTCTCAGAG 396
QY 301 AGAAGAAAGAGATACATTTGAAGACACAAGTAG 336
Db 397 AGAAGAAAGAGATACATTTGAAGACACAAGTAG 432

RESULT 15
AX375028 7260 bp DNA linear PAT 01-MAR-2002
LOCUS AX375028
DEFINITION Sequence 31 from Patent WO0210436.
ACCESSION AX375028
VERSION AX375028.1 GI:19169860
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Baak,J. and Mutter,G.L.
TITLE Prognostic classification of breast cancer
JOURNAL Patent: WO 0210436-A 31 07-FEB-2002;
THE BRIGHAM AND WOMEN'S HOSPITAL, INC. (US) ; Baak, Jan (US)

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source Location/Qualifiers
1..7260
/organism="Homo sapiens"
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BASE COUNT 2330 a 1415 c 1240 g 2275 t

ORIGIN
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Best Local Similarity 84.6%; Pred. No. 6.7e-92;
Matches 445; Conservative 0; Mismatches 26; Indels 55; Gaps 4;

QY 1 GGACCGAGACGCTGCGGTGCTGAGCTGCTGATGCTTCACTTCTGTTGAGAGC 60
Db 311 GGACCGAGACGCTGCGGTGCTGAGCTGCTGATGCTTCACTTCTGTTGAGAGC 370
QY 61 AGGGGCTTTTATTTCAACAGCCACAGATACGGCTCAGAGCTGGAGGGAGCTCAG 120
Db 371 AGGGGCTTTTATTTCAACAGCCACAGATACGGCTCAGAGCTGGAGGGAGCTCAG 430
QY 121 ACAGGATGTGATGATGCTGCTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
Db 431 ACAGGATGTGATGATGCTGCTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 490
QY 181 TGTGACCCCTCAAGCGGCAAGGAGACCGCGCTCGCTCCGAGGCGCCACAGCGAC 240
Db 491 TGTGACCCCTCAAGCGGCAAGGAGACCGCGCTCGCTCCGAGGCGCCACAGCGAC 550
QY 241 ATGCCCAAGACTCAAAAGTATCAGCTCCATCTACCAACAAGAAATGAGTCTCAGAG 300
Db 551 ATGCCCAAGACTCAAAAGTATCAGCTCCATCTACCAACAAGAAATGAGTCTCAGAG 565
QY 301 AGAAGAAAGAGATACATTTGAAGACACAAGTAGAGAGAGTGCAGAGAAACAGACTA 360
Db 566 -----AAGAGAGTACATTTGAAGAGCAAGTAGAGAGAGAGTGCAGAGAAACAGACTA 618
QY 361 CAGATGTAGAGAGACCTCTTCTAGAGAGTGAAGAGAGAGAGAGAGAGAGAGCTTGG 420
Db 619 CAGATGTAGAGAGACCTCTTCTAGAGAGTGAAGAGAGAGAGAGAGAGAGAGCTTGG 678
QY 421 CTCTGCAC-AGTTACCTG-TAAACATTTGAATACCGGCCAAAAAATAAGTTGATCAT 478
Db 679 CTCTGCACAGATTACCTGTTAACTTTGGAACACCTTACCAAAAAATAAGTTGATCAT 738
QY 479 TTCAAGAT-GGCATTTCCCAATGAATACAGAGTAACATTC 523
Db 739 TTAAAGATGGCGTTTCCCAATGAATACAGAGTAACATTC 784

Mon Jun 16 09:51:44 2003

us-09-852-261-5.rge

Page 10

Search completed: June 15, 2003, 17:22:10
Job time : 1454.41 secs

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OM nucleic - nucleic search, using sw model

Run on: June 15, 2003, 09:07:57 ; Search time 158.655 seconds
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Title: US-09-852-261-5

Perfect score: 523

Sequence: 1 ggaacgagagacgtctgcg.....aatcacacaagtaaacattc 523

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	523	100.0	523	22	AAD06400
2	523	100.0	523	22	AAS16879
3	523	100.0	523	18	AAT84893
4	467.4	89.4	517	22	AAD06398
5	467.4	89.4	517	24	AAS16877
6	409	78.2	471	22	AAD06405
7	409	78.2	471	24	AAS16884
8	356.8	68.2	539	22	AAD06399
9	356.8	68.2	539	24	AAS16878

10	334.4	63.9	818	8	AANT0435	Sequence encoding
11	334.4	63.9	7260	24	ABK84583	Human cDNA differe
12	334.4	63.9	7260	24	ABN97244	Gene #7742 used to
13	334.4	63.9	7260	24	ABK64812	Human benign prost
14	334.4	63.9	7260	24	ABK35504	Human endometrial
15	334.4	63.9	7260	24	ABK35551	Gene IGF1 differer
16	332.8	63.6	7260	24	AAT84894	Human insulin-like
17	331.2	63.3	622	7	AAN60490	Human prepro-somat
18	281.8	53.9	978	14	AAQ47804	Sequence encoding
19	275.2	52.6	1136	8	AAN70435	Sequence encoding
20	274.6	52.5	3599	19	AAV50428	Plasmid p160552 10
21	274.6	52.5	3599	19	AAV40796	Actual sequence of
22	274.6	52.5	3600	19	AAV50427	Plasmid p160552 up
23	274.6	52.5	3600	19	AAV40795	Expected sequence
24	274.6	52.5	5707	20	AAV88055	Plasmid p160335 DN
25	274.6	52.5	6345	20	AAV88054	Plasmid p160100A D
26	273.6	52.3	612	22	AAS14695	Human cDNA encodin
27	268.8	51.0	1052	20	AAV27498	Rat liver form of
28	262	50.1	487	22	AAD06404	Rat insulin-like IGF
29	262	50.1	487	24	AAS16883	Rat insulin-like IGF
30	237.6	45.4	317	24	AAS16882	Human liver-type I
31	237.6	45.4	318	22	AAD06403	Human liver-type I
32	237.6	45.4	462	19	AAV50426	Human IGF-1 encodi
33	237.6	45.4	462	19	AAV40794	Human IGF-1 codin
34	237.6	45.4	462	24	ABV91699	Human polynucleoti
35	193	36.9	210	24	ABV03146	Native mature IGF-
36	191.4	36.6	237	12	AAQ13568	Beta-gal/IGF-1 fus
37	191.4	36.6	238	12	AAQ13569	Recombinant botuli
38	181.4	36.6	2862	19	AAV26283	Bovine alpha lacta
39	187	35.8	4532	24	AAD32015	Human insulin-like
40	186.6	35.7	210	24	AAD32016	Synthetic human IG
41	185.2	35.4	240	13	AAQ23303	Killer toxin leade
42	185.2	35.4	390	19	AAV63526	Human IGF-1 encodi
43	183.4	35.1	462	19	AAV50425	Optimised IGF-1 co
44	183.4	35.1	462	19	AAV40793	Optimised IGF-1 co
45	180.2	34.5	207	22	AAV22139	Truncated human in

ALIGNMENTS

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ID	AAD06400 standard; cDNA: 523 BP.
XX	
AC	AAD06400;
XX	
DT	10-AUG-2001 (first entry)
XX	
DE	Rabbit IGF-I isoform mechano-growth factor (MGF) cDNA.
XX	
KM	Rabbit; IGF-I isoform; Insulin-like Growth Factor-I; MGF;
KM	mechano-growth factor; neurological disorder; neurodegenerative disorder;
KM	amyotrophic lateral sclerosis; spinal muscular atrophy; muscular atrophy;
KM	poliomyelitis; post-polio syndrome; toxin; motoneurone disorder;
KM	nerve damage; autosomal muscular dystrophy; diabetic neuropathy;
KM	new-linked muscular dystrophy; peripheral neuropathy;
KM	Alzheimer's disease; Parkinson's disease; ss.
XX	
OS	Oryctolagus cuniculus.
XX	
FT	Key
FT	1..336
FT	CDS
FT	Location/Qualifiers
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FT	/product= "Mechano-growth factor (MGF) "
FT	/note= "This region comprises exons 3-6. The CDS does
FT	not include start codon"
FT	/partial
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XX	MO200136483-A1.
XX	
XX	25-MAY-2001.
XX	

PF 15-NOV-2000; 2000WO-GB04354.
 XX
 PR 15-NOV-1999; 99GB-0026968.
 XX
 PA (UNLO) UNIV COLLEGE LONDON.
 XX
 PI Goldspink G, Johnson I;
 XX
 DR MPI: 2001-355620/37.
 DR P-PSDB; AAE02449.
 XX
 PT Use of mechano-growth factor, an isoform of insulin-like Growth
 PT Factor-I, capable of reducing motoneuron loss, in the manufacture of a
 PT medicament for the treatment of neurological disorder -
 XX
 PS Claim 4; Page 53-54; 66pp; English.
 CC The present invention relates to use of mechano-growth factor (MGF),
 CC an insulin-like Growth Factor-I (IGF-I) isoform in the manufacture of a
 CC medicament for the treatment of neurological disorder. The MGF is capable
 CC of reducing motoneuron loss by 20% or greater in response to nerve
 CC avulsion, and effects motoneuron rescue, preferably adult motoneuron
 CC rescue. The MGF polynucleotide and polypeptide are useful in the
 CC manufacture of a medicament for the treatment of a neurological disorder,
 CC including a disorder of motoneurons and/or neurodegenerative disorder,
 CC e.g., amyotrophic lateral sclerosis, spinal muscular atrophy, progressive
 CC spinal muscular atrophy, infantile or juvenile muscular atrophy,
 CC poliomyelitis or post-polio syndrome, a disorder caused by exposure to a
 CC toxin, motoneuron trauma, a motoneuron lesion or nerve damage, an
 CC injury that affects motoneurons, motoneuron loss associated with aging,
 CC autosomal or sex-linked muscular dystrophy, diabetic neuropathy,
 CC peripheral neuropathies, Alzheimer's disease and Parkinson's disease.
 CC The present sequence is rabbit IGF-I isoform MGF cDNA. MGF is a muscle
 CC isoform having extracellular (EC) domain, hence also referred as
 CC IGF-I-EC. The MGF protein comprises amino acid sequences encoded by
 CC nucleic acid sequence of IGF-I exons 4, 5 and 6 in the reading frame
 CC of MGF.
 XX
 SQ Sequence 523 BP; 154 A; 129 C; 142 G; 98 T; 0 other;
 Query Match 100.0%; Score 523; DB 22; Length 523;
 Best Local Similarity 100.0%; Pred. No. 6,4e-144;
 Matches 523; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 421 CTTCTGCACAGTTACTCTGTAACATTGGATACCGGCCAAAATAGTTGATCACTTT 480
 QY 481 CAAGATGGCATTTCGCCAATGAATAACACAGTAACATTC 523
 DB 481 CAAGATGGCATTTCGCCAATGAATAACACAGTAACATTC 523
 RESULT 2
 AAS16879
 ID AAS16879 standard; cDNA; 523 BP.
 XX
 AC AAS16879;
 XX
 DT 25-FEB-2002 (first entry)
 DE Rabbit mechano-growth factor (MGF) cDNA.
 XX
 XX Rabbit; mechano-growth factor; insulin-like growth factor I; IGF-I; MGF;
 KM neuroprotective; nerve damage; peripheral nervous system; nerve severing;
 KM muscle; neurological disorder; motoneuron loss; motoneuron disorder; ss;
 KM nerve avulsion.
 XX
 OS Oryctolagus cuniculus.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..336
 FT /*tag= a
 FT /product= "Rabbit MGF"
 FT /partial
 FT /note= "No start codon"
 FT exon 1..76
 FT /*tag= b
 FT /number= 3
 FT exon 77..259
 FT /*tag= c
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 FT exon 260..309
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 FT exon 311..333
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 FT /number= 6
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 PN WO200185781-A2.
 XX
 PD 15-NOV-2001.
 XX
 PE 10-MAY-2001; 2001MO-GB02054.
 XX
 PR 10-MAY-2000; 2000GB-0011278.
 XX
 PA (UNLO) UNIV COLLEGE LONDON.
 PA (EGRI-) EAST GRINSTEAD MEDICAL RES TRUST.
 XX
 PI Goldspink G, Terenigh G;
 XX
 DR MPI: 2002-055585/07.
 DR P-PSDB; AAU10561.
 XX
 PT Use of insulin-like growth factor I (IGF-I) isoform known as
 PT mechano-growth factor which is encoded by IGF-I exons 4,5,6 and has
 PT ability to reduce motoneuron loss in response to nerve avulsion, to
 PT treat nerve damage -
 XX
 PS Disclosure; Fig 7; 65pp; English.
 CC The invention relates to the use of an insulin-like growth factor I
 CC (IGF-I) isoform, known as mechano-growth factor (MGF), in the manufacture
 CC of a medicament for treating nerve damage in the peripheral nervous
 CC system, or for treating nerve damage by localising MGF at the site of
 CC damage. The nerve damage may include severing of a nerve. The treatment
 CC may be combined with another treatment (such as a polypeptide growth


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FT      /tag= e
FT      /number= 6
XX      WO200185781-A2.
XX      15-NOV-2001.
XX      10-MAY-2001: 2001WO-GB02054.
XX      10-MAY-2000: 2000GB-0011278.
XX      (UNLO ) UNIV COLLEGE LONDON.
XX      (EGR1-) EAST GRINSTEAD MEDICAL RES TRUST.
XX      Goldslink G, Terenghl G;
XX      WPI: 2002-055585/07.
XX      P-PSDB: AAU10559.
XX      Use of insulin-like growth factor I (IGF-I) isoform known as
XX      mechano-growth factor which is encoded by IGF-I exons 4,5,6 and has
XX      ability to reduce motoneuron loss in response to nerve avulsion, to
XX      treat nerve damage
XX      Claim 11, Fig 5, 65pp; English.
XX      The invention relates to the use of an insulin-like growth factor I
XX      (IGF-I) isoform, known as mechano-growth factor (MGF), in the manufacture
XX      of a medicament for treating nerve damage in the peripheral nervous
XX      system, or for treating nerve damage by localising MGF at the site of
XX      damage. The nerve damage may include severing of a nerve. The treatment
XX      may be combined with another treatment (such as a polypeptide growth
XX      factor other than MGF) that prevents or diminishes degeneration of the
XX      target organ (for example, muscle) which the damaged nerve innervates,
XX      whereby the treatment of the muscle with MGF or a polynucleotide encoding
XX      MGF prevents or diminishes degeneration. The method is useful for
XX      treating neurological disorders, preferably motoneuron disorders. These
XX      methods can reduce motoneuron loss by 20% or greater in response to nerve
XX      avulsion. This sequence represents cDNA encoding the human MGF.
XX      Sequence 517 BP; 150 A; 130 C; 139 G; 98 T; 0 other;

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Query Match      89.4%; Score 467.4; DB 24; Length 517;
Best Local Similarity 96.2%; Pred. No. 1.5e-127;
Matches 501; Conservative 0; Mismatches 16; Indels 4; Gaps 2;

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QY      1 GGACCGGAGACGCTGCGGTGCTGAGCTGATGCTGCTTCTGATGCTGCTGAGAC 60
DB      1 GGACCGGAGACGCTGCGGTGCTGAGCTGATGCTGCTTCTGATGCTGCTGAGAC 60
QY      61 AGGGGCTTTATTTCACAGACCCACAGATAGGCTCCAGCAGTGGAGGGGCACTCAG 120
DB      61 AGGGGCTTTATTTCACAGACCCACAGATAGGCTCCAGCAGTGGAGGGGCACTCAG 120
QY      121 ACAGGATCGTGATGATGCTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
DB      121 ACAGGATCGTGATGATGCTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
QY      181 TGGGACCCCTCAAGCCGGCAAGGACGCCGCTCCGTCGTCGCCAGGCCACACCGAC 240
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DB      298 AGAAGGAAAGAGTACATTGAGAAACACAACTAAGAGGAGTGCAGGAAACAGACTA 357

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QY      361 CAGCATGTAGAAAGACCTTCTGAGGATGAAGAGACAGCCACCGACACCTTTG 420
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DB      417 CTCCTCAGAGTTACCTGTAAACATGGAATACCGGCCAAAATAAGTTATCATCATTT 476
QY      481 CAAGATGGCATTTCCCAATGAAATACACAAGTAACAT 521
DB      477 CAAGATGGCATTTCCCAATGAAATACACAAGTAACAT 517

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RESULT 6
AAD06405
ID      AAD06405 standard; cDNA; 471 BP.
XX
XX      AAD06405;
XX
XX      10-AUG-2001 (first entry)
XX
XX      Rabbit liver-type IGF-I isoform (L.IGF-I) cDNA.
XX
XX      Rabbit; IGF-I isoform; Insulin-like Growth Factor-I; MGF;
XX      mechano-growth factor; neurological disorder; neurodegenerative disorder;
XX      amyotrophic lateral sclerosis; spinal muscular atrophy; muscular atrophy;
XX      poliomyelitis; post-polio syndrome; toxin; motoneurone disorder;
XX      nerve damage; autosomal muscular dystrophy; diabetic neuropathy;
XX      sex-linked muscular dystrophy; peripheral neuropathy;
XX      Alzheimer's disease; Parkinson's disease; liver; L.IGF-I; ss.
XX
XX      Oryctolagus cuniculus.
XX
XX      Key      Location/Qualifiers
XX      CDS      1..318
XX
XX      /*tag= a
XX      /product= "Liver-type IGF-I isoform (L.IGF-I)"
XX      /transl_except= (pos:7..9, aa:61n)
XX      /transl_except= (pos:25..27, aa:61n)
XX      /note= "These translation exceptions occur while decoding
XX      the alternative version of the protein (AA02456).
XX      The CDS comprises exons 3, 4 and 6 and
XX      does not include start codon"
XX
XX      WO200136483-A1.
XX
XX      15-NOV-2000; 2000WO-GB04354.
XX
XX      15-NOV-1999; 99GB-0026968.
XX
XX      (UNLO ) UNIV COLLEGE LONDON.
XX
XX      Goldslink G, Johnson I;
XX
XX      WPI: 2001-355620/37.
XX      P-PSDB: AAE02452, AAE02456.
XX
XX      Use of mechano-growth factor, an isoform of Insulin-like Growth
XX      Factor-I, capable of reducing motoneurone loss, in the manufacture of a
XX      medicament for the treatment of neurological disorder -
XX
XX      Disclosure; Page 59-60; 65pp; English.
XX
XX      The present invention relates to use of mechano-growth factor (MGF),
XX      an Insulin-like Growth Factor-I (IGF-I) isoform in the manufacture of a
XX      medicament for the treatment of neurological disorder. The MGF is capable
XX      of reducing motoneurone loss by 20% or greater in response to nerve
XX      avulsion, and effects motoneurone rescue, preferably adult motoneurone
XX      rescue. The MGF polynucleotide and polypeptide are useful in the
XX      manufacture of a medicament for the treatment of a neurological disorder,

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DB      181 TGTGACACCCCTCAAGCGCGGAAGGCGAGCCCGCTCCCTCCGTGCGCCAGCCCGACACCCGAC 240
OY      241 ATGCCCAAGACTCAGAAGATGATCAGCCCTCCATCTTACCAACAAGAAATGAAGTCTCAGAGG 300
DB      241 ATGCCCAAGACTCG----- 255
OY      301 AGAAGAAAGAAATGATTTGAAGAACACAGAGAGGAGGAGTGCAGGAACAAGAACTA 360
DB      256 -----AAGSAGTACATTTGAAAGAACACAGAGAGGAGGAGTGCAGGAACAAGAACTA 308
OY      361 CAGGATGTAGGAAGACCCCTTCTGAGAGTGAAGAGAGAGAGCCACCGCAGAGACCTTTG 420
DB      309 CAGGATGTAGGAAGACCCCTTCTGAGAGTGAAGAGAGAGAGCCACCGCAGAGACCTTTG 368
OY      421 CTCTGCACAGTACCTGCTTAACATTTGAATACCGGCCCAAAATTAAGTTGATCACAATT 480
DB      369 CTCTGCACAGTACCTGCTTAACATTTGAATACCGGCCCAAAATTAAGTTGATCACAATT 428
OY      481 CAAGATGCGATTTCCCGCAATGAATACACAAGTAACATTG 523
DB      429 CAAGATGCGATTTCCCGCAATGAATACACAAGTAACATTG 471

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RESULT 8
AAD06399
ID      AAD06399 standard; cDNA: 539 BP.

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AC      AAD06399:
XX      10-AUG-2001 (first entry)
DE      Rat IGF-I isoform mechano-growth factor (MGF) cDNA.
XX      Rat: IGF-I isoform; Insulin-like Growth Factor-I; MGF;
KW      mechano-growth factor; neurological disorder; neurodegenerative disorder;
KW      amyotrophic lateral sclerosis; spinal muscular atrophy; muscular atrophy;
KW      poliomyelitis; post-polio syndrome; toxin; motoneurone disorder;
KW      nerve damage; autosomal muscular dystrophy; diabetic neuropathy;
KW      sex-linked muscular dystrophy; peripheral neuropathy;
KW      Alzheimer's disease; Parkinson's disease; ss.
XX      Rattus sp.
OS
FH      Key
FT      CDS
FT      1..336
FT      /tag= a
FT      /product= "Mechano-growth factor (MGF)"
FT      /note= "This region comprises exons 3-6. The CDS does
FT      not include start codon"
FT      /partial

```

```

XX      WO200136483-A1.
XX      25-MAY-2001.
XX      15-NOV-2000; 2000MO-GB04354.
XX      PF      15-NOV-1999; 99GB-0026968.
XX      PR      15-NOV-1999; 99GB-0026968.
XX      (UNLO ) UNIV COLLEGE LONDON.
XX      PA      Goldslink G, Johnson I;
XX      PI      WPI: 2001-355620/37.
XX      DR      P-PSDB: AAE02448.
XX      PT      Use of mechano-growth factor, an isoform of Insulin-like Growth
XX      Factor-I, capable of reducing motoneurone loss, in the manufacture of a
XX      PT      medicament for the treatment of neurological disorder
XX      PS      Claim 4; Page 51-52; 66pp; English.
XX

```

```

CC      The present invention relates to use of mechano-growth factor (MGF),
CC      an insulin-like Growth factor-I (IGF-I) isoform in the manufacture of a
CC      medicament for the treatment of neurological disorder. The MGF is capable
CC      of reducing motoneurone loss by 20% or greater in response to nerve
CC      avulsion, and effects motoneurone rescue, preferably adult motoneurone
CC      rescue. The MGF polynucleotide and polypeptide are useful in the
CC      manufacture of a medicament for the treatment of a neurological disorder,
CC      including a disorder of motoneurons and/or neurodegenerative disorder,
CC      e.g., amyotrophic lateral sclerosis, spinal muscular atrophy, progressive
CC      spinal muscular atrophy, infantile or juvenile muscular atrophy,
CC      poliomyelitis or post-polio syndrome, a disorder caused by exposure to a
CC      toxin, motoneurone trauma, a motoneurone lesion or nerve damage, an
CC      injury that affects motoneurons, motoneurone loss associated with aging,
CC      autosomal or sex-linked muscular dystrophy, diabetic neuropathy,
CC      peripheral neuropathies, Alzheimer's disease and Parkinson's disease.
CC      The present sequence is rat IGF-I isoform MGF cDNA. MGF is a muscle
CC      isoform having extracellular (Ec) domain, hence also referred as
CC      IGF-I-Ec. The MGF protein comprises amino acid sequences encoded by
CC      CC      nucleic acid sequence of IGF-I exons 4, 5 and 6 in the reading frame
XX      of MGF.

```

```

SQ      Sequence 539 BP; 161 A; 136 C; 139 G; 103 T; 0 other;
Query Match      68.2%; Score 356.8; DB 22; Length 539;
Best Local Similarity 82.3%; Pred. No. 5,5e-95;
Matches 436; Conservative 0; Mismatches 87; Indels 7; Gaps 2;

```

```

OY      1 1GACCCGAGACCCCTCTGCGGCTCTGAGCTGTGAGATGCTCTTCACTTGTGTGGAAC 60
DB      1 1GACCCGAGACCCCTCTGCGGCTCTGAGCTGTGAGATGCTCTTCACTTGTGTGGAAC 60
OY      61 AGGGGCTTTTATTTCACAGAGCCACAGAGATAGGCTCCAGAGTGGAGGACCACTCAG 120
DB      61 AGGGGCTTTTACTTCAACAGAGCCACAGAGATAGGCTCCAGAGTGGAGGACCACTCAG 120
OY      121 AAGGCATGCTGATGAGTGTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
DB      121 AAGGCATGCTGATGAGTGTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
OY      181 TGTGACACCCCTCAAGCGCGGAAGGCGAGCCCGCTCCGTGCGCCAGCCGACACCGAC 240
DB      181 TGTGACACCCCTCAAGCGCGGAAGGCGAGCCCGCTCCGTGCGCCAGCCGACACCGAC 240
OY      241 ATGCCCAAGACTCAGAAGTATGAGCTCTTACCAACAAGAAATTAAGTCTAGAGG 300
DB      241 ATGCCCAAGACTCAGAAGTATGAGCTCTTACCAACAAGAAATTAAGTCTAGAGG 300
OY      301 AGAAGAAAGAAAGTACATTTGAAGAACACAGAGAGGAGTGCAGGAACAAGAACTA 360
DB      301 AGAAGAAAGAAAGTACATTTGAAGAACACAGAGAGGAGTGCAGGAACAAGAACTA 360
OY      361 CAGGATGTAGGAAGACCCCTTCTGAGAGTGAAGAGAGAGCCACCGCAGAGACCTTTG 420
DB      361 CAGGATGTAGGAAGACCCCTTCTGAGAGTGAAGAGAGAGCCACCGCAGAGACCTTTG 420
OY      421 CTCTGCACAGTACCTGCTTAACATTTGAATACCGGCCCAAAATTAAGTTGATC 474
DB      421 CTCTGCACAGTACCTGCTTAACATTTGAATACCGGCCCAAAATTAAGTTGATC 474
OY      475 ACATTTCAAAGAT-GGCAATTTCCCGCAATGAATACACAAGTAACATTG 523
DB      481 TCATTTCAAGATGGGCAATTTCCCTCAATGAATACACAAGTAACATTG 530

```

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RESULT 9
AAS16878
ID      AAS16878 standard; cDNA: 539 BP.
XX      AAS16878;
XX      25-FEB-2002 (first entry)
DT      Rat mechano-growth factor (MGF) cDNA.
XX

```

XX	Rat: mechano-growth factor: insulin-like growth factor I; IGF-I; MGF.
KM	neuroprotective: nerve damage; peripheral nervous system; nerve severing;
KM	muscle; neurological disorder; motoneuron loss; motoneuron disorder; ss;
XX	nerve avulsion.
OS	Rattus sp.
XX	
FT	Key
FT	CDS
FT	Location/Qualifiers
FT	1..336
FT	/tag= a
FT	/product= "Rat MGF"
FT	/partial
FT	/note= "No start codon"
FT	1..75
FT	/tag= b
FT	/number= exon 3
FT	76..258
FT	/tag= c
FT	/number= exon 4
FT	259..309
FT	/tag= d
FT	/number= exon 5
FT	310..333
FT	/tag= e
FT	/number= exon 6
XX	
PN	MO200185781-A2.
XX	
PD	15-NOV-2001.
XX	
PF	10-MAY-2001; 2001WC-GB02054.
XX	
PR	10-MAY-2000; 2000GB-0011278.
XX	
PA	(UNLO) UNIV COLLEGE LONDON
PA	(EGRI-) EAST GRINSTEAD MEDICAL RES TRUST.
XX	
FT	Goldspink G, Terenghi G;
XX	
DR	WPI: 2002-055585/07.
DR	P-PSDB: AAU10560.
XX	
PT	Use of insulin-like growth factor I (IGF-I) isoform known as
PT	mechano-growth factor which is encoded by IGF-I exons 4,5,6 and has
PT	ability to reduce motoneuron loss in response to nerve avulsion, to
PT	treat nerve damage
XX	
PS	Disclosure: Fig 6; 65pp; English.
XX	
CC	The invention relates to the use of an insulin-like growth factor I
CC	(IGF-I) isoform, known as mechano-growth factor (MGF), in the manufacture
CC	of a medicament for treating nerve damage in the peripheral nervous
CC	system, or for treating nerve damage by localising MGF at the site of
CC	damage. The nerve damage may include severing of a nerve. The treatment
CC	may be combined with another treatment (such as a polypeptide growth
CC	factor other than MGF) that prevents or diminishes degeneration of the
CC	target organ (for example, muscle) which the damaged nerve innervates,
CC	whereby the treatment of the muscle with MGF or a polynucleotide encoding
CC	MGF prevents or diminishes degeneration. The method is useful for
CC	treating neurological disorders, preferably motoneuron disorders. These
CC	methods can reduce motoneuron loss by 20% or greater in response to nerve
CC	avulsion. This sequence represents cDNA encoding the rat MGF.
XX	
SO	Sequence 539 BP; 161 A; 136 C; 139 G; 103 T; 0 other:
Query Match	68.2%; Score 356.8; DB 24; Length 539;
Best Local Similarity	82.3%; Pred. No. 5.5e-95;
Matches 436; Conservative	0; Mismatches 87; Indels 7; Gaps 2
1	GGAGCCGAGACGCTGCGGCTGAGCGTGGAGATGCTTCAGTCTGCTGTGGAGAC 60
1	GGAGCCAGAGACCCCTTGCGGGCTGAGCTGGGGAGCGCTCTTCAGTCTGTGGAGCA 60

OY	6	AGGGGCTTTATTATTCAACAGGCCACAGAGATACGGCTCCACAGTCGAGGGCACCTCAG	120
Db	61	AGGGGCTTTACTTCAACAAGCCCAAGCTCTGTGCTCTCAGCATTCCGAGGGCCACAG	120
OY	121	ACAAGGATCGTGGATGATGCTGCTCTCCGAGAGCTGTGATCTGAGAGAGCTGGAGATGTAC	180
Db	121	ACGGGGCATTTGTGGATGATGAGTGTGCTTCCGAGAGCTGTGATCTGAGAGAGCTGTGATGTAC	180
OY	181	TGTGGCAACCCCTCAAGCGGGCAAAAGGAGCGCGCTCGTCGCTGCGCCAGCGCCACACCGAC	240
Db	181	TGTGTCCGCTGGCAAGCTTACAAAGTCAGCTGCTTCATTCGCGGGCCAGCGCCACCTGAC	240
OY	241	ATGCCCAAGATCAGAGATGATCAGCCTCCATCTACCAACAGAAATGTAAAGTCTCAGAGG	300
Db	241	ATGCCCAAGATCAGAGATGATCAGCCTCCATCTACCAACAGAAATGTAAAGTCTCAGAGG	300
OY	301	AGAGGAAAGAGTACATTTGAAGAACCAAGTGTAGGGAGTGCAGGAAACAAAGACTA	360
Db	301	AGAGGAAAGAGTACATTTGAAGAACCAAGTGTAGGGAGTGCAGGAAACAAAGACTA	360
OY	361	CAGAGATGTAGGAGAGACCCCTTCTGAGGAGTGAAGAAAGAGACAGGCCACCGCAGACCTTTG	420
Db	361	CAGAGATGTAGGAGAGACCCCTTCTGAGGAGTGAAGAAAGAGATGCCAGCTGACCGCAAGATCTTG	420
OY	421	CTCTGCACATTTACCTGTAACTTTGGATTAACCGGCA-----AAAATTAAGTTGATC	474
Db	421	CTCTGTGAGCACCTTCCAAACATGTGGAACACCTGCCAAATATGCAATTAATGAGTCAATA	480
OY	475	ACATTTTCAAGAT-GGCATTTCCCCCAATGAAATACACAATTAACATTC	523
Db	481	TCAATTGAGAGATGGGCAATTTCCCTCATGAAATACACAATTAACATTC	530

RESULT 10

AAAT70436

AAAT70436 standard; cDNA; 818 bp.

AC

AAAT70436;

DE

05-APR-1991 (first entry)

XX

Sequence encoding insulin-like growth factor 1A (IGF-1A).

KW

Growth promoter; lactation enhancer; cell proliferation; ss.

OS

Homo sapiens.

PN

EP229750-A.

XX

22-JUL-1987.

XX

06-JAN-1987; 87EP-0870001.

XX

20-NOV-1986; 86US-0929671.

XX

07-JAN-1986; 86US-0816662.

PA

(UNIW) UNIV OF WASHINGTON.

XX

Krivt GG, Rotwein PS;

DR

WPI; 1987-200203/29.

PT

New pre-pro-insulin-like growth factor-1 protein - obtd. by recombinant DNA procedures for use as growth promoters for enhancing lactation, for stimulating cell proliferation etc.

XX

Example; Fig 5; 59pp; English.

CC

A 42 base oligonucleotide corresponding to the DNA sequence encoding amino acids 10 to 23 of mature human IGF-I was synthesized (AAAT70437).

CC

The radiolabeled 42 mer was then employed to screen for IGF-I containing DNA sequences in a human liver cDNA library. Insulin-

CC 11-like growth factors-1A and -1B cDNAs were isolated from a human cDNA
 CC library by using lambdaBst 11 (AAAT70435, AAAT70436). The human IGF-1
 CC genomic gene was isolated and mapped. It encodes at least two
 CC preproinsulin-like growth factor-1 proteins. An essentially pure
 CC preproinsulin-like growth factor-1 protein comprising the sequence
 CC of amino acids shown in Figure six is claimed (AAP70277).

XX Sequence 818 BP; 232 A; 186 C; 187 G; 213 T; 0 other:

Query Match 63.9%; Score 334.4; DB 8; Length 818;
 Best Local Similarity 84.6%; Pred. No. 2.6e-88;
 Matches 445; Conservative 0; Mismatches 26; Indels 55; Gaps 4;

QY 1 GGACCGGAGACGCTCTGCGGTGCTGAGAGCTGGTGGATCTCTTCACTGCTGCTGAGAGAC 60
 DB 203 GGACCGGAGACGCTCTGCGGTGCTGAGAGCTGGTGGATCTCTTCACTGCTGCTGAGAGAC 262
 QY 61 AGGGGCTTTTATTTCACACAGCCACAGATACGGCTCCAGCGAGTGGAGGCGACCTCAG 120
 DB 263 AGGGGCTTTTATTTCACACAGCCACAGATACGGCTCCAGCGAGTGGAGGCGCGCTCAG 322
 QY 121 ACAGGATCGTGTGATGCTGCTCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAC 180
 DB 323 ACAGGATCGTGTGATGCTGCTCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAT 382
 QY 181 TGTGCACCCCTCAAGCCGCAAGGCGCCGCTCCGCTCCGACCGCCACACCGAC 240
 DB 383 TGCACCCCTCAAGCCGCAAGGCGCCGCTCCGCTCCGACCGCCACACCGAC 442
 QY 241 ATGCCCAAGACTCGAGATATCAGCCCTCATCTACACAGAAATGAAGTTCAGAGG 300
 DB 443 ATGCCCAAGACTCGAGATATCAGCCCTCATCTACACAGAAATGAAGTTCAGAGG 457
 QY 301 AGAAGGAAGGAAGTACATTTGAAGAACACAGTACAGAGGAGTGCAGAGAAACAGACTA 360
 DB 458 -----AAGGAAGTACATTTGAAGAACACAGTACAGAGGAGTGCAGAGAAACAGACTA 510
 QY 361 CAGGATGTAGGAAGACCTCTCTGAGAGTGAAGAGACAGCGCCACCGACCGCTTGG 420
 DB 511 CAGGATGTAGGAAGACCTCTCTGAGAGTGAAGAGTACATGCGACCGCAGGATCTTGG 570
 QY 421 CTCTGCAC-AGTACCTG-TAAACATTTGAATACCGGCGCAAAAATTAAGTTGATCAGAT 478
 DB 571 CTCTGCACGAGTACCTGTTAACTTTGAACACACTACCAAAAATTAAGTTGATCAGAT 630
 QY 479 TTCAAAGAT-GGCACTTCCCCCAATGAATACACAGTAAACATTC 523
 DB 631 TTAAGATGGGCTTCCCCCAATGAATACACAGTAAACATTC 676

RESULT 11
 ABR84583
 ID ABR84583 standard; cDNA; 7260 BP.

XX 14-AUG-2002 (first entry)

XX Human cDNA differentially expressed in granulocytic cells #1154.

XX Human; ss; granulocytic cell; DNA chip; bacterial infection;
 KW vital infection; parasitic infection; protozoal infection;
 KW fungal infection; sterile inflammatory disease; psoriasis;
 KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
 KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
 KW adult respiratory distress syndrome; inflammatory bowel disease;
 KW Crohn's disease; ulcerative colitis; periodontal disease;
 KW granulocyte activation; chronic inflammation; allergy.

XX Homo sapiens.
 XX MO200228999-A2.
 XX

PD 11-APR-2002.

XX 03-OCT-2001; 2001MO-US30821.

XX 03-OCT-2000; 2000US-237189P.

XX (GENE-) GENE LOGIC INC.

XX Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;

XX WPI, 2002-435328/46.

XX Detecting granulocyte activation by detecting differential expression

XX of genes associated with granulocyte activation, which serves as

XX drug toxicity -

XX Claim 1; SEQ ID No 1154; 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
 CC DNA chip analysis as given in the specification, and comparing
 CC the expression level to an expression level in an unactivated
 CC GC, where differential expression of Gs is indicative of GCA.
 CC Also included are modulating (M2) GA by contacting GC with an agent
 CC that alters the expression of at least one gene in Gs; (2) screening (M3)
 CC for an agent capable of modulating GCA or an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease using the
 CC gene expression profile; (3) detecting (M4) an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease, by detecting the
 CC level of expression in a sample of the tissue of gene(s) from Gs, where
 CC the level of expression of the gene is indicative of inflammation;
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 CC an allergic response in a subject, exposure of a subject to a pathogen
 CC or sterile inflammatory disease, by contacting a tissue having
 CC inflammation with an agent that modulates the expression of gene(s)
 CC from Gs in the tissue. M1 is useful for detecting GCA. M2 is useful for
 CC modulating GA; M3 is useful for screening an agent capable of modulating
 CC GCA preferably in an inflammation in a tissue; M4 is useful for
 CC detecting an inflammation (especially chronic) in a tissue, an allergic
 CC response in a subject, exposure of a subject to a pathogen or sterile
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease; also bacterial infection, viral infection,
 CC parasitic infection, protozoal infection, fungal infection and M5 is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pcl_sequences.

XX Sequence 7260 BP; 2330 A; 1415 C; 1240 G; 2275 T; 0 other:

Query Match 63.9%; Score 334.4; DB 24; Length 7260;
 Best Local Similarity 84.6%; Pred. No. 6.1e-88;
 Matches 445; Conservative 0; Mismatches 26; Indels 55; Gaps 4;

QY 1 GGACCGGAGACGCTCTGCGGTGCTGAGAGCTGGTGGATCTCTTCACTGCTGCTGAGAGAC 60
 DB 311 GGACCGGAGACGCTCTGCGGTGCTGAGAGCTGGTGGATCTCTTCACTGCTGCTGAGAGAC 370
 QY 61 AGGGGCTTTTATTTCACACAGCCACAGATACGGCTCCAGAGTGGAGGCGACCTCAG 120
 DB 371 AGGGGCTTTTATTTCACACAGCCACAGATACGGCTCCAGAGTGGAGGCGCGCTCAG 430
 QY 121 ACAGGATCGTGTGATGCTGCTCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAC 180
 DB 431 ACAGGATCGTGTGATGCTGCTCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAT 490

PA (NISH) JAPAN TOBACCO INC.
 XX Munger WE, Kulkarni P, Getzenberg RH, Waga I, Yamamoto J;
 XX WPI: 2002-257476/30.
 XX
 XX
 XX
 XX
 PT Identifying drugs for and diagnosing benign prostatic hyperplasia, by
 PT detecting expression levels of one or more genes in prostate cells from
 PT patient that are differentially regulated compared to normal prostate
 PT cells
 XX
 XX
 PS Disclosure: Page 391-393; 444pp; English.

CC The invention relates to a method of diagnosing (I) the onset or
 CC progression of benign prostatic hyperplasia (BPH), or screening (II) for
 CC or identifying an agent that modulates the onset or progression of BPH.
 CC The method is based on changes in gene expression in BPH tissue isolated
 CC from patients exhibiting different clinical states of prostate
 CC hyperplasia as compared to normal prostate tissue. (I) comprises
 CC detecting the expression levels of one or more genes in prostate cells
 CC from the subject that are differentially regulated compared to normal
 CC prostate cells. (II) comprises preparing a first gene expression profile
 CC of BPH cells or BPH-like cell population, exposing the cells to the
 CC agent, preparing a second gene expression profile of the agent exposed
 CC cells, and comparing the first and second gene expression profiles.
 CC (I) is useful for diagnosing the onset or progression of BPH. (II) is
 CC useful for identifying an agent that modulates the onset or progression
 CC of BPH. The methods are useful to present information identifying
 CC the expression level in a tissue or cells, by comparing the expression
 CC level of genes given in the specification in the tissue or cells to the
 CC level of expression of gene in the database, and displaying the
 CC expression levels of at least one gene in the tissue or cell sample
 CC compared to the expression level in BPH. Agents using (II) are useful for
 CC treating BPH or prostate cancer. ABK64106, ABK64860 represent human
 CC benign prostatic hyperplasia gene sequences of the invention.

Sequence 7260 BP; 2330 A; 1415 C; 1240 G; 2275 T; 0 other;

Query Match 63.9%; Score 334.4; DB 24; Length 7260;
 Best Local Similarity 84.6%; Pred. No. 6.1e-88;
 Matches 445; Conservative 0; Mismatches 26; Indels 55; Gaps 4;

1 GACCGGAGAGCGCTGCGGTGCTGAGTGTGATGCTCTTCACTGCTGCTGAGAC 60
 |||||||
 311 GACCGGAGAGCGCTGCGGTGCTGAGTGTGATGCTCTTCACTGCTGCTGAGAC 370
 |||||||
 61 AGGGGCTTTATTTCACAAAGCCACAGATACGGCTCCAGACATCGAGGGGACCTCAG 120
 |||||||
 371 AGGGGCTTTATTTCACAAAGCCACAGATACGGCTCCAGACATCGAGGGGACCTCAG 430
 |||||||
 121 ACAGGATCGTGATGATGCTGCTCCGAGCTGTGATCTGAGGAGGCTGAGATGTAC 180
 |||||||
 431 ACAGGATCGTGATGATGCTGCTCCGAGCTGTGATCTGAGGAGGCTGAGATGTAT 490
 |||||||
 181 TGTGACACCCCTCAAGCCGCAAGGACAGCCGCTCCGCTGCCAGCGCCACACCGAC 240
 |||||||
 491 TGGCGACCCCTCAAGCCGCAAGGACAGCCGCTCCGCTGCCAGCGCCACACCGAC 550
 |||||||
 241 ATGCCCAAGACTCAGAGATATCAGCCTTCATCTACCAACAAGAAATGAACTCTCAGAGG 300
 |||||||
 551 ATGCCCAAGACTCAGAGATATCAGCCTTCATCTACCAACAAGAAATGAACTCTCAGAGG 565
 |||||||
 301 AGAAGGAGAGGAGATTTGAAGACACAGATAGAGGGAGTGACAGAAACAGAACTA 360
 |||||||
 566 -----AAGAGAGACATTGGAAGACAGAGTAGAGGGAGTGACAGAAACAGAACTA 618
 |||||||
 619 CAGGATGTAGAGAGACCTCTCTGAGAGATGAAGATGATGACACCGCAGAGATCTTG 678
 |||||||
 421 CTCCTCAC-AGTACCTG-TAAACATTGGAATACCGGCAAAATAGTTGATTCAT 478
 |||||||
 679 CTCCTCACAGATTAAGCTTGAAGACCTTACCAAAAATAGTTGATTAACAT 738
 |||||||

QY 479 TTCAAAGAT-GGCATTTCCCCCATGAATACACAGTAAACATTG 523
 |||||||
 DB 739 TTTAAAGATGGCGGCTTCCCAATGAATACACAGTAAACATTG 784
 |||||||

RESULT 14
 ABR35504
 ID ABR35504 standard; DNA; 7260 BP.
 XX
 XX ABR35504;
 AC
 XX
 XX 08-MAY-2002 (first entry)
 DT
 XX
 XX Human endometrial cancer related gene, IGF1.
 DE
 XX
 XX Human; ds: gene; endometrial cancer; differential expression;
 KW
 XX DNA microarray; protein microarray.

OS Homo sapiens.
 XX
 XX
 XX NC020209573-A2.
 PN
 XX
 XX 07-FEB-2002.
 PD
 XX
 XX 31-JUL-2001; 2001WO-US24104.
 PF
 XX
 XX 31-JUL-2000; 2000US-221735P.
 PR
 XX
 XX (BGM) BRIGHAM & WOMENS HOSPITAL INC.
 PA
 XX
 XX Mutter GU;
 PI
 XX
 XX WPI: 2002-179967/23.
 DR
 XX
 XX P-PDSB; AA084284.

PT Diagnosing endometrial cancer comprises determining expression of
 PT nucleic acid molecules or expression products that are differentially
 PT expressed in normal and malignant endometrium -
 PS
 XX Claim 1; Page 85-89; 233pp; English.

CC The invention relates to diagnosing endometrial cancer in a subject
 CC suspected of having endometrial cancer comprising determining the
 CC expression of a set of nucleic acid molecules or expression products in
 CC an endometrial sample suspected of being cancerous, where the set of
 CC nucleic acid molecules comprises at least 2 nucleic acid molecules
 CC selected from 50 fully defined sequences as given in the specification.
 CC The nucleic acids are used as an array of at least 2 of the 50
 CC nucleic acids bound to a solid substrate. Also included is a solid-phase
 CC protein microarray comprising at least 2 antibodies or its antigen
 CC binding fragments, that specifically bind at least 2 different
 CC polypeptides from the 50 fully defined sequences as given in the
 CC specification, fixed to a solid substrate. The methods and arrays are
 CC useful for the diagnosis of endometrial cancer, selecting and monitoring
 CC treatment regimes and identification of lead compounds useful for the
 CC treatment of endometrial cancer. The present sequence is one of 50
 CC genes differentially expressed between cancerous and non-cancerous
 CC samples.
 CC
 XX
 XX Sequence 7260 BP; 2330 A; 1415 C; 1240 G; 2275 T; 0 other;

Query Match 63.9%; Score 334.4; DB 24; Length 7260;
 Best Local Similarity 84.6%; Pred. No. 6.1e-88;
 Matches 445; Conservative 0; Mismatches 26; Indels 55; Gaps 4;

1 GACCGGAGAGCGCTGCGGTGCTGAGTGTGATGCTCTTCACTGCTGCTGAGAC 60
 |||||||
 311 GACCGGAGAGCGCTGCGGTGCTGAGTGTGATGCTCTTCACTGCTGCTGAGAC 370
 |||||||
 61 AGGGGCTTTATTTCACAAAGCCACAGATACGGCTCCAGACAGTGGAGGGACTCAG 120
 |||||||
 371 AGGGGCTTTATTTCACAAAGCCACAGATACGGCTCCAGACAGTGGAGGGGCTCAG 430
 |||||||

QY 121 ACAGCATGTGATGAGTGTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
 |||||
 DB 431 ACAGCATGTGATGAGTGTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAT 490
 QY 181 TGTGACCCCTCAAGCGGCGCAAGGAGCGCCCTCGTCCGCGCCAGCGCCACCGAC 240
 |||||
 DB 491 TGTGACCCCTCAAGCGGCGCAAGGAGCGCCCTCGTCCGCGCCAGCGCCACCGAC 550
 QY 241 ATGCCCAAGACTCAGAGTATCAGGCTCCATCTACCAACAGAAATGATCTCAGAG 300
 |||||
 DB 551 ATGCCCAAGACTCAGAGTATCAGGCTCCATCTACCAACAGAAATGATCTCAGAG 565
 QY 301 AGAAGAAAGAAAGTCAATTTGAAGACACAGTAGAGGAGTGCAGAAACAAACTA 360
 |||||
 DB 566 -----AAGGAAGTACATTGAAGACAGCAAGTAGAGGAGTGCAGAAACAAACTA 618
 QY 361 CAGGATGTAGAGAACCTTCTGAGAGTGAAGAGAGCAGCGCCAGCGACCTTTG 420
 |||||
 DB 619 CAGGATGTAGAGAACCTTCTGAGAGTGAAGAGTGAAGAGTGAAGAGTGAAGAGT 678
 QY 421 CTCTGAC-AGTTACTG-TAAGCATTTGATGAGTGAAGAGTGAAGAGTGAAGAGT 478
 |||||
 DB 679 CTCTGACAGTGTACTCTGTTAACTTTGAGACCTTACCAAAAAATAGTTGATACAT 738
 QY 479 TTCAAGAT-GGCATTTCCCAATGAATACAGTAACATTC 523
 |||||
 DB 739 TTAAGATGGCGTTTCCCAATGAATACAGTAACATTC 784

RESULT 15

ABK35561
 ID ABK35561 standard; DNA; 7260 BP.

XX ABK35561:

AC 08-MAY-2002 (first entry)

DE Gene IGFI differentially expressed in breast cancer tissue.

XX Human; diagnosis of breast cancer; endometrial cancer; breast tumour;

KW MAI; mitotic activity index; cytosolic; gene; ds.

XX Homo sapiens.

OS WO200210436-A2.

XX 07-FEB-2002.

XX 27-JUL-2001: 2001WO-US23642.

XX 28-JUL-2000: 2000US-222093P.

XX (BGHM) BRIGHAM & WOMENS HOSPITAL INC.

XX (BAK/) BAK J.

XX BAK J, Mutter GL.

XX WPI; 2002-180084/23.

XX P-PDB; A084341.

XX Diagnosing breast cancer comprises determining expression of nucleic

PT acid molecules or expression products that are differentially expressed

XX in normal and malignant tissue -

XX Claim 1; Page 74-78; 219pp; English.

CC The present invention relates to a method for diagnosing breast cancer

CC in a subject suspected of having endometrial cancer. The method

CC comprises determining the expression of a set of human genes or

CC expression products in an endometrial sample suspected of being

CC cancerous. The human genes of the invention are differentially

CC expressed in breast tumours characterised as high or low MAI (mitotic

CC activity index). These sets of genes can be used to discriminate between
 CC high and low MAI breast tumours. The invention also provides DNA and
 CC protein microarrays for analysing the expression of the human genes and
 CC their protein products. The methods and arrays are useful for the
 CC diagnosis and prognosis of endometrial cancer, selecting and monitoring
 CC treatment regimes, and identification of compounds useful for the
 CC treatment of endometrial cancer. ABK35561-ABK35561 represent the human
 CC genes of the invention that are differentially expressed in breast
 CC cancer tissue.

XX SQ Sequence 7260 BP; 2330 A; 1415 C; 1240 G; 2275 T; 0 other;

Query Match 63.9%; Score 334.4; DB 24; Length 7260;

Best Local Similarity 84.6%; Pred. No. 6.1e-86;

Matches 445; Conservative 0; Mismatches 26; Indels 55; Gaps 4;

QY 1 GGACGGAGAGAGCTCTCGGTGCTGAGACTGTGATGCTCTTCAAGTTCGTGTGAGAC 60
 |||||
 DB 311 GGACGGAGAGAGCTCTCGGTGCTGAGACTGTGATGCTCTTCAAGTTCGTGTGAGAC 370
 QY 61 AGGGCTTTTATTTCACAAAGCCACAGATAGGCTCCAGAGTGGAGGCACTCAG 120
 |||||
 DB 371 AGGGCTTTTATTTCACAAAGCCACAGATAGGCTCCAGAGTGGAGGCACTCAG 420
 QY 121 ACAGCATGTGATGAGTGTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 180
 |||||
 DB 431 ACAGCATGTGATGAGTGTGCTTCCGAGCTGTGATCTGAGAGGCTGAGATGTAC 420
 QY 181 TGTGACCCCTCAAGCGGCGCAAGGAGCGCCCTCGTCCGCGCCAGCGCCACCGAC 240
 |||||
 DB 491 TGTGACCCCTCAAGCGGCGCAAGGAGCGCCCTCGTCCGCGCCAGCGCCACCGAC 550
 QY 241 ATGCCCAAGACTCAGAGTATCAGGCTCCATCTACCAACAGAAATGATCTCAGAG 300
 |||||
 DB 551 ATGCCCAAGACTCAGAGTATCAGGCTCCATCTACCAACAGAAATGATCTCAGAG 565
 QY 301 AGAAGAAAGAAAGTCAATTTGAAGACACAGTAGAGGAGTGCAGAAACAAACTA 360
 |||||
 DB 566 -----AAGGAAGTACATTGAAGACAGCAAGTAGAGGAGTGCAGAAACAAACTA 618
 QY 361 CAGGATGTAGAGAACCTTCTGAGAGTGAAGAGAGCAGCGCCAGCGACCTTTG 420
 |||||
 DB 619 CAGGATGTAGAGAACCTTCTGAGAGTGAAGAGTGAAGAGTGAAGAGTGAAGAGT 678
 QY 421 CTCTGAC-AGTTACTG-TAAGCATTTGATGAGTGAAGAGTGAAGAGTGAAGAGT 478
 |||||
 DB 679 CTCTGACAGTGTACTCTGTTAACTTTGAGACCTTACCAAAAAATAGTTGATACAT 738
 QY 479 TTCAAGAT-GGCATTTCCCAATGAATACAGTAACATTC 523
 |||||
 DB 739 TTAAGATGGCGTTTCCCAATGAATACAGTAACATTC 784

Search completed: June 15, 2003, 16:08:51
 Job time : 160.655 secs

GenCore version 5.1.6
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OW nucleic - nucleic search, using sw model

Run on: June 15, 2003, 15:46:38 ; Search time 42.3965 Seconds
(without alignments)
3783.145 Million cell updates/sec

Title: US-09-852-261-5

Perfect score: 523

Sequence: 1 ggaacgagacgctcgcg.....aaatacaagaataacattc 523

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*

2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*

3: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*

4: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*

5: /cgn2_6/ptodata/2/ina/PTUS_COMB.seq:*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	523	100.0	553	4	US-09-142-583A-3
2	523	100.0	553	4	US-09-142-583A-5
3	332.8	63.6	777	4	US-09-142-583A-10
4	331.2	63.3	622	6	5405942-2
5	274.6	52.5	5707	2	US-08-472-809B-8
6	274.6	52.5	6345	2	US-08-472-809B-7
7	234.4	44.8	357	6	5405942-13
8	232.8	44.5	357	6	5405942-9
9	191.4	36.6	210	6	5405942-11
10	191.4	36.6	210	6	5405942-11
11	191.4	36.6	210	6	5405942-11
12	189.8	36.3	210	6	5405942-15
13	185.2	35.4	240	5	US-08-308-196A-1
14	185.2	35.4	240	5	PCT-US91-06452-1
15	185.2	35.4	390	3	US-09-029-67-13
16	158.8	30.4	798	1	US-07-953-230A-6
17	154.8	29.6	846	1	US-07-953-230A-1
18	154.8	29.6	846	1	US-07-953-230A-5
19	127	24.3	621	3	US-08-989-251-40
20	127	24.3	621	3	US-08-989-251-40
21	127	24.3	621	4	US-09-340-250-40
22	125.8	24.1	233	1	US-08-444-142-3
23	125.8	24.1	233	1	US-08-444-131-3
24	125.8	24.1	485	1	US-07-989-845-29
25	125.8	24.1	485	1	US-07-989-844-13
26	125.8	24.1	485	1	US-08-110-663-1
27	125.8	24.1	485	1	US-08-169-686-1

28	125.8	24.1	485	1	US-08-240-121-13	Sequence 13, Appl
29	125.8	24.1	485	1	US-08-451-241-13	Sequence 13, Appl
30	125.8	24.1	485	1	US-08-110-664-1	Sequence 1, Appl
31	125.8	24.1	485	1	US-08-446-882-1	Sequence 1, Appl
32	125.8	24.1	485	1	US-08-385-187A-1	Sequence 1, Appl
33	125.8	24.1	485	1	US-08-470-108-1	Sequence 1, Appl
34	125.8	24.1	485	5	PCT-US93-11298-13	Sequence 29, Appl
35	125.8	24.1	485	5	PCT-US93-11298-29	Sequence 29, Appl
36	125.6	24.0	243	2	US-08-482-182-75	Sequence 75, Appl
37	124.2	23.7	717	1	US-08-284-784-40	Sequence 40, Appl
38	124.2	23.7	717	2	US-08-854-811-40	Sequence 40, Appl
39	124.2	23.7	783	2	US-08-284-784-43	Sequence 43, Appl
40	124.2	23.7	783	2	US-08-854-811-43	Sequence 43, Appl
41	124.2	23.7	891	1	US-08-284-784-33	Sequence 33, Appl
42	124.2	23.7	891	1	US-08-284-784-34	Sequence 34, Appl
43	124.2	23.7	891	2	US-08-854-811-33	Sequence 33, Appl
44	124.2	23.7	891	2	US-08-854-811-34	Sequence 34, Appl
45	124.2	23.7	900	1	US-08-284-784-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-09-142-583A-3
Sequence 3, Appl
Patent No. 6221842
GENERAL INFORMATION:
APPLICANT: GOLDSPIK, GEOFFREY
TITLE OF INVENTION: METHOD OF TREATING MUSCULAR DISORDERS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P. C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/142,583A
FILING DATE: 29-Oct-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/GB97/00658
FILING DATE: 11-MAR-1997
APPLICATION NUMBER: GB 9605124.8
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B. J.
REGISTRATION NUMBER: 36663
REFERENCE/DOCKET NUMBER: 117-263
TELECOMMUNICATION INFORMATION:
TELEPHONE: 7038164000
TELEFAX: 7038164100
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 553 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..363
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-142-583A-3
Query Match 100.0%; Score 523; DB 4; Length 553;

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/142,583A
FILING DATE: 29-OCT-1998
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/GB97/00658
FILING DATE: 11-MAR-1997
APPLICATION NUMBER: GB 9605124.8
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B. J.
REGISTRATION NUMBER: 36663
REFERENCE/DOCKET NUMBER: 117-263
TELECOMMUNICATION INFORMATION:
TELEPHONE: 7038164000
FAX: 7038164100
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 777 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 26..493
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-142-583A-10

Query Match
Best Local Similarity 84.4%; Pred. No. 7,7e-95;
Matches 444; Conservative 0; Mismatches 27; Indels 55; Gaps 4;

1 GGACCGGAGAGCGCTCTGCGTGTGAGTGTGATCTTCAAGTTCGTTGTGTGAGAC 60
179 GGACCGGAGAGCGCTCTGCGGCGTGTGAGTGTGATCTTCAAGTTCGTTGTGTGAGAC 228
61 AGGCGCTTTTATTTCAACAAGCCACAGATACGCGTCCAGAGTGGAGGCGACCTCAG 120
239 AGGCGCTTTTATTTCAACAAGCCACAGAGTATGCTCCAGAGTGGAGGCGACCTCAG 298
121 ACAGGATCTGTGATGTGCTGCTTCCGAGCTGTATCTGAGAGGCTGTGAGATGTAC 180
299 ACAGGATCTGTGATGTGCTGCTTCCGAGCTGTATCTGAGAGGCTGTGAGATGTAT 358
181 TGTGACACCCCTCAAGCGGCAAAAGGACCGCTCCGCTGCGGCCAGCGCCACACCGAC 240
359 TGGCGACCCCTCAAGCGCTCCGCAAGTCAAGTCTGCTGCTGCGGCCAGCGCCACACCGAC 418
241 ATGCCCAAGACTCGAAGTATCAGCTCTCATCTACCAAGAAATGAAGTCTCAGAGG 300
419 ATGCCCAAGACTCGAAGTATCAGCTCTCATCTACCAAGAAATGAAGTCTCAGAGG 433
301 AGAAGGAAGGAAGTATGTAAGAACACAAAGTAGAGGAGTAGGAGGAAGAAAGAACTA 360
434 -----AAGGAAGTATGTAAGAACACAAAGTAGAGGAGTAGGAGGAAGAAAGAACTA 486
361 CAGGATGTAGGAAGACCTTCTGAGAGTAGAAGAGGAGGACCGACCGACCGCTTTG 420
487 CAGGATGTAGGAAGACCTTCTGAGAGTAGAAGAGGAGGACCGACCGACCGCTTTG 546
421 CTCTGCAC-AGTTCCTG-TAAACATGGAATACCGGCCCAAAATAGTTTATCATCAT 478
547 CTCTGCACGAGTACCTGTTAACTTTGGAACACCTTCCAAAAATAGTTTATCATCAT 606
479 TTCAAAGAT-GGCAATTTCCCAATGAATACAACTAAACATTC 523
607 TTAAGAATGGCGCTTTCCCGCAATGAATACAACTAAACATTC 652

RESULT 4
5405942-2
Patent No. 5405942
APPLICANT: BELL, GRAEME I.; RALL, LESLIE B.; MERRYWEATHER, JAMES P.
TITLE OF INVENTION: PREPRO INSULIN-LIKE GROWTH FACTORS
I AND II
NUMBER OF SEQUENCES: 16
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/65,673
FILING DATE: 16-JUN-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 630,557
FILING DATE: 19-JUL-1984
SEQ ID NO: 2:
LENGTH: 622
5405942-2

Query Match
Best Local Similarity 68.3%; Pred. No. 2.2e-94;
Matches 359; Conservative 84; Mismatches 28; Indels 55; Gaps 4;

1 GGACCGGAGAGCGCTCTGCGGCTGTGAGTGTGATGCTTCAAGTTCGTTGTGTGAGAC 60
45 GGACCGGAGAGCGCTCTGCGGCTGTGAGTGTGATGCTTCAAGTTCGTTGTGTGAGAC 104
61 AGGCGCTTTTATTTCAACAAGCCACAGATACGCGTCCAGAGTGGAGGCGACCTCAG 120
105 AGGCGCTTTTATTTCAACAAGCCACAGATACGCGTCCAGAGTGGAGGCGACCTCAG 164
121 ACAGGATCTGTGATGTGCTGCTTCCGAGCTGTATCTGAGAGGCTGTGAGATGTAC 180
165 ACAGGATCTGTGATGTGCTGCTTCCGAGCTGTATCTGAGAGGCTGTGAGATGTAT 224
181 TGTGACACCCCTCAAGCGGCAAAAGGACCGCTCCGCTGCGGCCAGCGCCACACCGAC 240
225 TGGCGACCCCTCAAGCGCTCCGCAAGTCAAGTCTGCTGCTGCGGCCAGCGCCACACCGAC 284
241 ATGCCCAAGACTCGAAGTATCAGCTCTCATCTACCAAGAAATGAAGTCTCAGAGG 300
285 AUGCCCAAGACCCAG----- 299
301 AGAAGGAAGGAAGTATGTAAGAACACAAAGTAGAGGAGTAGGAGGAAGAAAGAACTA 360
300 -----AAGGAAGTATGTAAGAACACAAAGTAGAGGAGTAGGAGGAAGAAAGAACTA 352
361 CAGGATGTAGGAAGACCTTCTGAGAGTAGAAGAGGAGGACCGACCGACCGCTTTG 420
353 CAGGATGTAGGAAGACCTTCTGAGAGTAGAAGAGGAGGACCGACCGACCGCTTTG 412
421 CTCTGCAC-AGTTCCTG-TAAACATGGAATACCGGCCCAAAATAGTTTATCATCAT 478
413 CTCTGCACGAGTACCTGTTAACTTTGGAACACCTTCCAAAAATAGTTTATCATCAT 472
479 TTCAAAGAT-GGCAATTTCCCAATGAATACAACTAAACATTC 523
473 UUAAGAATGGCGCTTTCCCGCAATGAATACAACTAAACATTC 518

RESULT 5
US-08-472-809B-8
Sequence 8, Application US/08472809B
Patent No. 5925564
GENERAL INFORMATION:
APPLICANT: Schwartz, Robert J.
APPLICANT: Demayo, Franco J.
APPLICANT: O'Malley, Bert W.
TITLE OF INVENTION: Expression Vector Systems and
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon

JAMES P.
TITLE OF INVENTION: PREPRO INSULIN-LIKE GROWTH FACTORS
I AND II
NUMBER OF SEQUENCES: 16
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/65,673
FILING DATE: 16-JUN-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 630,557
FILING DATE: 19-JUL-1984
SEQ ID NO:11
LENGTH: 210
5405942-11

Query Match 36.6%; Score 191.4; DB 6; Length 210;
Best Local Similarity 94.7%; Pred. No. 9.1e-51;
Matches 198; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 1 GGACCGGAGAGCGCTCTGCGGTGCTGAGCTGGTGTGATGCTCTTCACTTGTGTGTGAGAC 60
DB 1 GGACCGGAGAGCGCTCTGCGGTGCTGAGCTGGTGTGATGCTCTTCACTTGTGTGTGAGAC 60
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGAGATACGGCTCCAGCAGTGGAGGCGCACTCAG 120
DB 61 AGGGGCTTTTATTTCACAAAGCCCAAGAGATACGGCTCCAGCAGTGGAGGCGCGCTCAG 120
QY 121 ACAGGCTGCTGATGATGCTGCTTCCGAGCTGTATCTGAGGAGGCTGGAGATGTAC 180
DB 121 ACAGGCTGCTGATGATGCTGCTTCCGAGCTGTATCTGAGGAGGCTGGAGATGTAT 180
QY 181 TGTGCACCCCTCAAGCCGCAAGGAGCAGC 209
DB 181 TGTGCACCCCTCAAGCCCTGCGCAAGTCAAGC 209

RESULT 11
US-09-255-829-13
Sequence 13, Application US/09255829
Patent No. 6461617
GENERAL INFORMATION:
APPLICANT: Shone, Clifford Charles
APPLICANT: Quinn, Conrad Padraig
APPLICANT: Foster, Keith Alan
TITLE OF INVENTION: Recombinant Toxin Fragments
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN, & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/255,829
FILING DATE: 23-FEB-1999
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB97/02273
FILING DATE: 22-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/782,893
FILING DATE: 27-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: ESMOND, ROBERT W.
REGISTRATION NUMBER: 32,893
REFERENCE/DOCKET NUMBER: 1581.0130002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 2862 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..2862
US-09-255-829-13

Query Match 36.6%; Score 191.4; DB 4; Length 2862;
Best Local Similarity 94.7%; Pred. No. 3.6e-50;
Matches 198; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 1 GGACCGGAGAGCGCTCTGCGGTGCTGAGCTGGTGTGATGCTTGTAGTTGTTGTGTGAGAC 60
DB 2644 GGACCGGAGAGCGCTCTGCGGTGCTGAGCTGGTGTGATGCTTGTAGTTGTTGTGTGAGAC 2703
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGATACGGCTCCAGCAGTGGAGGCGCACTCAG 120
DB 2704 AGGGGCTTTTATTTCACAAAGCCCAAGATACGGCTCCAGCAGTGGAGGCGCGCTCAG 2763
QY 121 ACAGGCTGCTGATGATGCTGCTTCCGAGCTGTATCTGAGGAGCTGGAGATGTAC 180
DB 2764 ACAGGCTGCTGATGATGCTGCTTCCGAGCTGTATCTGAGGAGCTGGAGATGTAT 2823
QY 181 TGTGCACCCCTCAAGCCGCAAGGAGCAGC 209
DB 2824 TGTGCACCCCTCAAGCCCTGCGCAAGTCAAGC 2852

RESULT 12
5405942-15
Patent No. 5405942
APPLICANT: BELL, GRAEME I.; SALL, LESLIE B.; MERRYWEATHER,
JAMES P.
TITLE OF INVENTION: PREPRO INSULIN-LIKE GROWTH FACTORS
I AND II
NUMBER OF SEQUENCES: 16
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/65,673
FILING DATE: 16-JUN-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 630,557
FILING DATE: 19-JUL-1984
SEQ ID NO:15
LENGTH: 210
5405942-15

Query Match 36.3%; Score 189.8; DB 6; Length 210;
Best Local Similarity 74.6%; Pred. No. 2.9e-50;
Matches 156; Conservative 41; Mismatches 12; Indels 0; Gaps 0;
QY 1 GGACCGGAGAGCGCTCTGCGGTGCTGAGCTGGTGTGATGCTTGTAGTTGTTGTGTGAGAC 60
DB 1 GGACCGGAGAGCGCTCTGCGGTGCTGAGCTGGTGTGATGCTTGTAGTTGTTGTGTGAGAC 60
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGATACGGCTCCAGCAGTGGAGGCGCACTCAG 120
DB 61 AGGGGCTTTTATTTCACAAAGCCCAAGATACGGCTCCAGCAGTGGAGGCGCGCTCAG 120
QY 121 ACAGGCTGCTGATGATGCTGCTTCCGAGCTGTATCTGAGGAGGCTGGAGATGTAC 180
DB 121 ACAGGCTGCTGATGATGCTGCTTCCGAGCTGTATCTGAGGAGGCTGGAGATGTAC 180
QY 181 TGTGCACCCCTCAAGCCGCAAGGAGCAGC 209
DB 181 TGTGCACCCCTCAAGCCCTGCGCAAGTCAAGC 209

RESULT 13

Sequence 13, Application US/09029267
Patent No. 6107057
GENERAL INFORMATION:
APPLICANT: Crawford, Kenneth
APPLICANT: Zator, Isabel
APPLICANT: Innis, Michael
TITLE OF INVENTION: Pichia Secretary Leader for Protein
TITLE OF INVENTION: Expression
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: United States
ZIP: 94608
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/029,267
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Chung, Ling-Fong
REGISTRATION NUMBER: 36,482
REFERENCE/DOCKET NUMBER: 1165.100
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 601-2704
TELEFAX: (510) 655-3542
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 390 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Synthetic"
US-09-029-267-13

Query Match 35.4% Score 185.2; DB 3; Length 390;
Best Local Similarity 91.6%; Pred. No. 1.1e-48;
Matches 196; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
QY 1 GGACCGAGAGCGCTGCGGTCTGAGCTGTGATGCTCTTCAGTCTGTGTGAGAGC 60
|||
Db 160 GGACCGAGAGCGCTGCGGTCTGAGCTGTGATGCTCTTCAGTCTGTGTGAGAGC 219
QY 61 AGGGCTTTTATTTTCAACAAGCCCAAGGATACGGCTCCAGCAGTCGAGGCGACCTCAG 120
|||
Db 220 AGGGCTTTTATTTTCAACAAGCCCAAGGATACGGCTCCAGCAGTCGAGGCGACCTCAG 279
QY 121 ACAGCATGTGATGAGTGTCTGCTCCGAGCTGTGATCTGAGGAGGCTGTGAGATGTAC 180
|||
Db 280 ACAGCATGTGATGAGTGTCTGCTCCGAGCTGTGATCTGAGGAGGCTGTGAGATGTAT 339
QY 181 TGTGACCGCCCTCAAGCGGCAAGGACGCGCT 214
|||
Db 340 TGTGACCGCCCTCAAGCGGCTGCAAGTCAAGCTGTAT 373

Search completed: June 15, 2003, 18:20:42
Job time : 43.3965 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 15, 2003, 17:22:19 ; Search time 94.7296 Seconds
(without alignments)
7994.713 Million cell updates/sec

Title: US-09-852-261-5
Perfect score: 523
Sequence: 1 ggaccggagacgctctgcgg.....aatacacaagtaaacatlc 523

Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/us07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
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- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	523	100.0	523	10	US-09-852-261-5
2	467.4	89.4	517	10	US-09-852-261-1
3	409	78.2	471	10	US-09-852-261-13
4	356.8	68.2	539	10	US-09-852-261-3
5	349.4	66.8	651	9	US-10-161-088-1
6	334.4	63.9	7260	9	US-10-166-639-4
7	334.4	63.9	7260	10	US-09-819-497-24
8	334.4	63.9	7260	10	US-09-880-107-3739
9	262	50.1	487	10	US-09-852-261-11
10	237.6	45.4	318	10	US-09-852-261-9
11	228	43.6	462	9	US-10-238-114-1
12	209	40.0	286	9	US-10-161-088-3
13	187	35.8	4532	10	US-09-930-377B-1
14	186.6	35.7	210	10	US-09-930-377B-2
15	185.2	35.4	390	9	US-10-179-046-13
16	141.6	27.1	213	9	US-10-076-816-9
17	141.6	27.1	213	9	US-10-077-381-9
18	127	24.3	621	9	US-10-280-826-40
19	127	24.3	621	10	US-09-921-398-40

20	113.4	21.7	480	9	US-10-280-826-38	Sequence 38, Appl
21	113.4	21.7	480	10	US-09-921-398-38	Sequence 38, Appl
22	77.2	14.8	854	9	US-09-854-531-989	Sequence 989, App
23	75.4	14.4	447	9	US-10-025-380-917	Sequence 917, App
24	75.4	14.4	447	10	US-09-922-217-917	Sequence 917, App
25	75.4	14.4	447	10	US-09-833-263-917	Sequence 917, App
26	75.2	14.4	437	9	US-10-066-543-663	Sequence 663, App
27	75.2	14.4	493	9	US-10-066-543-997	Sequence 997, App
28	75.2	14.4	536	9	US-10-066-543-1040	Sequence 1040, App
29	75.2	14.4	536	9	US-10-066-543-428	Sequence 428, App
30	75.2	14.4	333	9	US-10-136-841-1	Sequence 1, Appl
31	75.2	14.4	549	9	US-10-066-543-478	Sequence 478, App
32	75.2	14.4	574	9	US-10-025-380-918	Sequence 918, App
33	75.2	14.4	574	10	US-09-922-217-918	Sequence 918, App
34	75.2	14.4	574	10	US-09-833-263-918	Sequence 918, App
35	75.2	14.4	577	9	US-10-066-543-1137	Sequence 1137, App
36	75.2	14.4	579	9	US-10-066-543-1034	Sequence 1034, App
37	75.2	14.4	586	9	US-10-066-543-808	Sequence 808, App
38	75.2	14.4	1356	9	US-10-081-119-37	Sequence 37, Appl
39	75.2	14.4	1356	9	US-10-097-340-144	Sequence 144, App
40	75.2	14.4	1356	10	US-09-962-436-293	Sequence 293, App
41	75.2	14.4	1356	10	US-09-954-456-294	Sequence 294, App
42	75.2	14.4	1356	10	US-09-880-107-2092	Sequence 2092, App
43	75.2	14.4	4380	9	US-10-125-181-37	Sequence 37, Appl
44	73.8	14.1	411	10	US-09-960-352-2082	Sequence 2082, App
45	72	13.8	237	9	US-10-136-841-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-852-261-5
; Sequence 5, Application US/09852261
; Patent No. US20020083477A1
; GENERAL INFORMATION:
; APPLICANT: GOLDSPINK, GEOFREY
; APPLICANT: TRENCH, GIORGIO
; TITLE OF INVENTION: REPAIR OF NERVE DAMAGE
; FILE REFERENCE: 117-351
; CURRENT APPLICATION NUMBER: US/09/852,261
; CURRENT FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: GB 0011278.9
; PRIOR FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 523
; TYPE: DNA
; ORGANISM: Oryctolagus cuniculus
US-09-852-261-5

Query Match 100.0%; Score 523; DB 10; Length 523;
Best Local Similarity 100.0%; Pred. No. 1.2e+163;
Matches 523; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GGACCGAGAGCGCTCGCGTCTGAGCGGAGAGCTCTCAGTCTCTGTGTGAGAGC	60
DB	1	GGACCGAGAGCGCTCGCGTCTGAGCGGAGAGCTCTCAGTCTCTGTGTGAGAGC	60
QY	61	AGGGGCTTTTATTTTACACAGCCACAGAGATACGGCTCCAGCAGTGGAGGACCTCAG	120
DB	61	AGGGGCTTTTATTTTACACAGCCACAGAGATACGGCTCCAGCAGTGGAGGACCTCAG	120
QY	61	AGGGGCTTTTATTTTACACAGCCACAGAGATACGGCTCCAGCAGTGGAGGACCTCAG	120
DB	61	AGGGGCTTTTATTTTACACAGCCACAGAGATACGGCTCCAGCAGTGGAGGACCTCAG	120
QY	121	ACAGGATGTGTGATGCTGCTTCGAGACTGTATCTAGAGAGCTGAGATGTAC	180
DB	121	ACAGGATGTGTGATGCTGCTTCGAGACTGTATCTAGAGAGCTGAGATGTAC	180
QY	121	ACAGGATGTGTGATGCTGCTTCGAGACTGTATCTAGAGAGCTGAGATGTAC	180
DB	121	ACAGGATGTGTGATGCTGCTTCGAGACTGTATCTAGAGAGCTGAGATGTAC	180
QY	181	TGTCACCCCTTAAGCGGCAAGAGAGGCGCTCGTCCGTCGAGGCGGACGACGAC	240
DB	181	TGTCACCCCTTAAGCGGCAAGAGAGGCGCTCGTCCGTCGAGGCGGACGACGAC	240
QY	181	TGTCACCCCTTAAGCGGCAAGAGAGGCGCTCGTCCGTCGAGGCGGACGACGAC	240
DB	181	TGTCACCCCTTAAGCGGCAAGAGAGGCGCTCGTCCGTCGAGGCGGACGACGAC	240
QY	241	ATGCCACAGACTCAGAGATATCAGCTCCATCTACCAACAGAAATGAGTCTCAGAGG	300

Db 241 ATGCCCAAGACTGAGAGTATCAGCTCCATCTTACCAACAGAAAATGANGTCTCAGAG 300
QY 301 AGAAGGAAGAGAGTACATTGTAAGAACACACACTAGAGGAGTGCAGAGAAACAAGACTA 360
Db 301 AGAAGGAAGAGAGTACATTGTAAGAACACACACTAGAGGAGTGCAGAGAAACAAGACTA 360
QY 361 CAGATGTAGAGAGACCCCTCTGAGGAGTGAAGAGAGAGCCGACCGAGAGCCCTTTG 420
Db 361 CAGATGTAGAGAGACCCCTCTGAGGAGTGAAGAGAGAGCCGACCGAGAGCCCTTTG 420
QY 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
Db 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
QY 481 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 523
Db 481 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 523

RESULT 2

US-09-852-261-1
Sequence 1, Application US/09852261
Patent No. US20020083477A1
GENERAL INFORMATION:
APPLICANT: GOLDSPIK, GEOFREY
APPLICANT: TERENCE, GIORGIO
TITLE OF INVENTION: REPAIR OF NERVE DAMAGE
FILE REFERENCE: 117-351
CURRENT APPLICATION NUMBER: US/09/852,261
CURRENT FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: GB 0011278.9
PRIOR FILING DATE: 2000-05-10
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 517
TYPE: DNA
ORGANISM: Homo sapiens
US-09-852-261-1

Query Match 89.4%; Score 467.4; DB 10; Length 517;
Best Local Similarity 96.2%; Pred. No. 3,7e-145;
Matches 501; Conservative 0; Mismatches 16; Indels 4; Gaps 2;

QY 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGAGTGTGAGTCTTCACTGCTGTGTGAGAC 60
Db 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGAGTGTGAGTCTTCACTGCTGTGTGAGAC 60
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGAGATAGCGCTCCAGAGTGTGAGGCGACCTCAG 120
Db 61 AGGGGCTTTTATTTCACAAAGCCCAAGAGATAGCGCTCCAGAGTGTGAGGCGACCTCAG 120
QY 121 ACAGGATCTGTATGATGATGCTCTTCCGAGCTGTGATCTGAGAGGCTGTGAGATGAT 180
Db 121 ACAGGATCTGTATGATGATGCTCTTCCGAGCTGTGATCTGAGAGGCTGTGAGATGAT 180
QY 181 TGTGCACCCCTCAAGCCGCAAGAGCCGCTCCGTCGTCAGGAGCGCCACACCGAC 240
Db 181 TGTGCACCCCTCAAGCCGCTCCGTCGTCAGGAGCGCCACACCGAC 240
QY 241 ATGCCCAAGAGCCGCAAGAGTATCAGCCCATCTACCAACAGAGACGAGAGTCTCA 297
Db 241 ATGCCCAAGAGCCGCAAGAGTATCAGCCCATCTACCAACAGAGACGAGAGTCTCA 297
QY 301 AGAAGGAAGAGAGTACATTGTAAGAACACACACTAGAGGAGTGCAGAGAAACAAGACTA 360
Db 301 AGAAGGAAGAGAGTACATTGTAAGAACACACACTAGAGGAGTGCAGAGAAACAAGACTA 360
QY 361 CAGATGTAGAGAGACCCCTCTGAGGAGTGAAGAGAGAGCCGACCGAGAGCCCTTTG 420
Db 361 CAGATGTAGAGAGACCCCTCTGAGGAGTGAAGAGAGAGCCGACCGAGAGCCCTTTG 420
QY 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
Db 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
QY 481 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 523
Db 481 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 523

QY 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
Db 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
QY 481 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 521
Db 477 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 517

RESULT 3

US-09-852-261-13
Sequence 13, Application US/09852261
Patent No. US20020083477A1
GENERAL INFORMATION:
APPLICANT: GOLDSPIK, GEOFREY
APPLICANT: TERENCE, GIORGIO
TITLE OF INVENTION: REPAIR OF NERVE DAMAGE
FILE REFERENCE: 117-351
CURRENT APPLICATION NUMBER: US/09/852,261
CURRENT FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: GB 0011278.9
PRIOR FILING DATE: 2000-05-10
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 471
TYPE: DNA
ORGANISM: Oryctolagus cuniculus
US-09-852-261-13

Query Match 78.2%; Score 409; DB 10; Length 471;
Best Local Similarity 90.1%; Pred. No. 9.6e-126;
Matches 471; Conservative 0; Mismatches 0; Indels 52; Gaps 1;

QY 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGAGTGTGAGTCTTCACTGCTGTGTGAGAC 60
Db 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGAGTGTGAGTCTTCACTGCTGTGTGAGAC 60
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGAGATAGCGCTCCAGAGTGTGAGGCGACCTCAG 120
Db 61 AGGGGCTTTTATTTCACAAAGCCCAAGAGATAGCGCTCCAGAGTGTGAGGCGACCTCAG 120
QY 121 ACAGGATCTGTATGATGATGCTCTTCCGAGCTGTGATCTGAGAGGCTGTGAGATGAT 180
Db 121 ACAGGATCTGTATGATGATGCTCTTCCGAGCTGTGATCTGAGAGGCTGTGAGATGAT 180
QY 181 TGTGCACCCCTCAAGCCGCAAGAGCCGCTCCGTCGTCAGGAGCGCCACACCGAC 240
Db 181 TGTGCACCCCTCAAGCCGCAAGAGCCGCTCCGTCGTCAGGAGCGCCACACCGAC 240
QY 241 ATGCCCAAGAGCCGCAAGAGTATCAGCCCATCTACCAACAGAGAGTCTCA 300
Db 241 ATGCCCAAGAGCCGCAAGAGTATCAGCCCATCTACCAACAGAGAGTCTCA 255
QY 301 AGAAGGAAGAGAGTACATTGTAAGAACACACACTAGAGGAGTGCAGAGAAACAAGACTA 360
Db 256 -----AAGAGTACATTGTAAGAACACACACTAGAGGAGTGCAGAGAAACAAGACTA 308
QY 361 CAGATGTAGAGAGACCCCTCTGAGGAGTGAAGAGAGAGCCGACCGAGAGCCCTTTG 420
Db 309 CAGATGTAGAGAGACCCCTCTGAGGAGTGAAGAGAGAGCCGACCGAGAGCCCTTTG 368
QY 421 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 480
Db 369 CTCTGCACAGTACCTGTAACATTTGGAATACCGGCGCAAAAATAAGTTGATACATT 428
QY 481 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 523
Db 429 CAAAGATGCAATTTCCCGCAATGAATACACAGTAAACATTC 471

RESULT 4
US-09-852-261-3

RESULT 5
US-10-161-088-1
Sequence 1, Application US/10161088
Publication No. US2003007761A1
GENERAL INFORMATION:
APPLICANT: Parrow, Vendela
TITLE OF INVENTION: NEW METHODS
FILE REFERENCE: 13425-111001
CURRENT APPLICATION NUMBER: US/10/161, 088
CURRENT FILING DATE: 2002-05-31
PRIOR APPLICATION NUMBER: SE 0101934-8
PRIOR FILING DATE: 2001-06-01

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RESULT 6
US-10-136-639-4
: Sequence 4, Application US/10136639
: Publication No. US2003007261A1
: GENERAL INFORMATION:
: APPLICANT: Lebowitz, Jonathan
: TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TARGETING PROTEINS ACROSS THE BLO
: FILE REFERENCE: SYM-008
: CURRENT APPLICATION NUMBER: US/10/136,639
: CURRENT FILING DATE: 2002-09-06
: PRIOR APPLICATION NUMBER: US 60/329,650
: PRIOR FILING DATE: 2001-10-16
: NUMBER OF SEQ. ID NOS.: 4
: SOFTWARE: PatentIn version 3.0
: SEQ. ID NO. 4
: LENGTH: 7260
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-10-136-639-4

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: RESULT 10
: US-09-852-261-9
: Sequence 9, Application US/09852261
: Patent No. US20020083477A1
: GENERAL INFORMATION:
: APPLICANT: GOLDSPIK, GEOFREY
: APPLICANT: TERENGHI, GIORGIO
: TITLE OF INVENTION: REPAIR OF NERVE DAMAGE
: FILE REFERENCE: 117-351

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CONSENT FILING DATE: 2001-03-10
PRIORITY FILING DATE: 2000-05-10
PRIOR APPLICATION NUMBER: GB 0011278.9
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 318
TYPE: DNA
ORGANISM: Homo sapiens
US-09-852-261-9

Query Match      45.4%; Score 237.6; DB 10; Length 318;
Best Local Similarity 94.6%; Pred. No. 8.5e-69;
Matches 246; Conservative 0; Mismatches 14; Indels 0; Caps 0

QY   1 GGACCGAAGACCTGTGGGTCGTGAGTGTGATGATGCTTTCAAGTTCGTGTGTGGAGAC 60
     1 GGAACCGAAGACCTGTGGGTCGTGAGTGTGATGATGCTTTCAAGTTCGTGTGTGGAGAC 60
Db   1 GGAACCGAAGACCTGTGGGTCGTGAGTGTGATGATGCTTTCAAGTTCGTGTGTGGAGAC 60
QY   61 AGGGCGTTTATTATTAACAAGCCACAGATACAGCGTTCACAGACTCGGAGGCACACTCAG 120

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QY      121  ACAGGCATCGTGAGTAGTGCTGCTTCGCGAGCTGATCTGAGAGAGCTGGAGATGTAC 180
          |||
          121  ACAGGCATCGTGAGTAGTGCTGCTTCGCGAGCTGATCTGAGAGAGCTGGAGATGTAT 180
QY      181  TGTGCACCCCTTAACCGCGCAAGGACCGCTCGCTCGGTGCCAGCGCCACACCGAC 240
          |||
          181  TGGCGCACCCCTTAACCGCTGCCCAAGTCAAGTCTGTGCGTGGCCAGCGCCACACCGAC 240
QY      241  ATGCCCAAGACTCGAGAGTA 260
          |||
          241  ATGCCCAAGACTCGAGAGTA 260
Db
RESULT 11
US-10-238-114-1
; Sequence 1, Application US/70238114
; Publication No. US20030100073A1
; GENERAL INFORMATION:
; APPLICANT: Meria1
; APPLICANT: ANDREONI , Christine Michele
; TITLE OF INVENTION: IGF-1 AS FELINE VACCINE ADJUVANT, IN PARTICULAR AGAINST
; FILE REFERENCE: 4531313-3165.1
; CURRENT APPLICATION NUMBER: US/10/238,114
; CURRENT FILING DATE: 2002-09-10
; PRIOR FILING DATE: FR 01 11736
; PRIOR FILING DATE: 2001-09-11

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? PRIOR FILING DATE:2001-09-12
? NUMBER OF SEQ ID NOS: 20
? SOFTWARE: PatentIn version 3.
? SEQ ID NO 1
?
? LENGTH: 462
? TYPE: DNA
? ORGANISM: Felis catus.
US-10-238-114-1

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Query Match	43.6%	Score 228	DB 9	Length 462
Best Local Similarity	92.3%	Pred. No. 1.6e+65		
Matches 240	Conservative 0	Mismatches 20	Indels 0	Gaps 0

QY		GGACCGGAGACGGCTGTCCGGTCTGTAGACTGGATGCCTTCAGATTGCTGTGGAGAC	60
Db	145	GGACCAAGAGACGCTGTGTGGGGCTGTGGTGGAAGCCTTCAGTTGGTGTGGAGAC	204
QY	61	AGGAGGTTTAAATTCACAAGGCCAACAGATACGGCTCCACAGACGGAGGGCACCTCAG	120
Db	205	AGGGGTTTTTAATTCACAAGCCCAAGCGGGGTATGCGTCCACAGTCGGAGGGCACCTCAG	264
QY	121	ACAGGATCGTGATAGTGTGCTTCCGGACCTGATATCGAAGAGGCTGGAAATATAC	180
Db	265	ACAGGCATCGTGATAGTGTGCTTCCGGACCTGATATCGAAGCGCGCTAGAATATAC	324
QY	181	TGTGCACCCCTCAAAGCGGCGAAAAGGACACCGCTCCGTCCGTGCCACAGCCACACCAC	240
Db	325	TGTGCACCCCTCAAAGCTCCCAAAGTGTGCCGCGCTAGTCCGTGCTCAAGCGCCACACTGAC	384
QY	241	ATGCCCAAGACTCAGAAGTA	260
Db	385	ATGCCCAAGACTCAGAAGTA	404

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1 RESULT 12
2 US-10-161-088-3
3 Sequence 3, Application US/10161088
4 Publication No. US2003007761A1
5 GENERAL INFORMATION:
6 APPLICANT: Fairbro, Vendela
7 APPLICANT: Rosengren, Linda
8 TITLE OF INVENTION: NEW METHODS
9 FILE REFERENCE: 13425-111001
10 CURRENT APPLICATION NUMBER: US/10/161,088
11 CURRENT FILING DATE: 2002-05-31
12 PRIOR APPLICATION NUMBER: SE 0101934-8
13 PRIOR FILING DATE: 2001-06-01
14 NUMBER OF SEQ ID NOS: 3
15 SOFTWARE: fastsq for Windows Version 4.0
16 SEQ ID NO 3
17 LENGTH: 266
18 TYPE: DNA
19 ORGANISM: Homo sapiens
20 US-10-161-088-3

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Query Match	40.0%	Score 209;	DB 9;	Length 286;
Best Local Similarity	88.3%	Pred. No. 2.6e-59;		
Matches 227; Conservative	0;	Mismatches 30;	Indels 0;	Gaps 0

QY 16 TGGGGGCTGAGCTGATGGATGCTCTTTCAGTTCGTGTGAGACAGAGGGGTTTATATTC 75
Db 18 TGGGGGGCTGAGCTGATGGATGCTCTTTCAGTTCGTGTGTGACAGAGGGGCTTTTACTTC 77
QY 76 AACAGCCACAGATACGGCTCCAGCAGTGTGGAGGGCACTCCAGACAGGATGTGGAT 135
Db 78 AACAAACCCACAGGGGTATGGCTCCAGCATTTGGAGAGGCACTCCAGACAGGATTTGGAT 137
QY 136 GAGTGTGCTTCCGAGCTGTATGTGAGAGGCTGAGATGTACTGTGACCCCTGAAG 135
Db 138 GAGTGTGCTTCCGAGCTGTATGTGAGAGGACTGAGATGTACTGTGCCCACTGAAG 137
QY 196 CCGGCAAGGCAAGCCGCTCCGTCCGTGCCAGGCGCCACACGACATGCCCAAGACTGAG 255

Db 198 CCTACCAAGCAGCCGGCGTCTATCGTGGCCAGCGCCACTGACATGCCCAAGACTCAG 257
 QY 256 AAGTATCAGCCTCCATC 272
 Db 258 GCATGCAGGCTGTCTC 274

RESULT 13
US-09-930-377B-1
; Sequence 1, Application US/09930377B
; Patent No. US20020144296A1
; GENERAL INFORMATION:

Query Match	35.8%	Score 187	DB 10	Length 4532
Best Local Similarity	90.9%	Pred. No. 2.5e-51		
Matches 199	Conservative 0	Mismatches 20	Indels 0	Gaps 0

QY	1	GGACCGGAAAGACCTTTGGGGTGTGAGTGGTGGATCTCTTAACTCGTGTGTGAGAC	60
Db	2046	GGACCGGAAAGACCTTTGGGGGCTGTAGCTGTGTGAATCTTTTAACTTGTGTGTGAGAC	2105
QY	61	AGGGGCTTTTATTTCAACAAGCCACACAGATACGGCTCCAGCATGTGGAGGGCCACTCAG	120
Db	2106	AGGGGATTTTATTTCAACAAGCCACAGAGGTATGAGATCCAGCATGTGGAGGGGCCCCAG	2165
QY	121	AAGAGCATGTGTGATGATGATGCTGCTTCCGAGACTGTGATTTGAGGAGGCTGGAGATGAC	180
Db	2166	ACAGGCAATCGTAGATGATGCTGCTTCCGAGAGCTGTATCTAAGAGGAGGCTGGAGATGTAT	2225
QY	181	TGTGCACCCGCTCAAGCCGGCAAAAGACGCCGCTCGCTC	219
Db	2226	TGCGCAACCCCTTAAGACCTTGCCAAAGTCAAGCTTGTATAGCTC	2264

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RESULT 14
US-09-930-377B-2
; Sequence 2, Application US/0930377B
; Patent No. US20020144296A1
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Matthew B.
; APPLICANT: Donovan, Sharon M.
; APPLICANT: Bleck, Gregory T.
; APPLICANT: Monaco-Seigel, Marcia
; TITLE OF INVENTION: Animals Expressing Exogenous IGF-I in their Milk
; FILE REFERENCE: 66-00
; CURRENT APPLICATION NUMBER: US/09/930,377B
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/225,474
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 2
; LENGTH: 210

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TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: IGF-I
US-09-930-377B-2

Query Match
Best Local Similarity 35.7%; Score 186.6; DB 10; Length 210;
93.3%; Pred. No. 6.4e-52;
Matches 195; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGCTGATGCTCTTCAGTCTGCTGTGTGGAGAC 60
Db 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGCTGATGCTCTTCAGTCTGCTGTGTGGAGAC 60
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGATACGAGTCCAGCAGTCCGAGGGCAGCTTCAG 120
Db 61 AGGGGCTTTTATTTCACAAAGCCCAAGATACGAGTCCAGCAGTCCGAGGGCAGCTTCAG 120
QY 121 ACAGGCATCGTGATGATGATGCTGCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAC 180
Db 121 ACAGGCATCGTGATGATGATGCTGCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAT 180
QY 181 TGTGCACCCCTCAAGCCGCAAGGCAAGCAGC 209
Db 181 TGTGCACCCCTCAAGCCGCAAGGCAAGCAGC 209

RESULT 15

US-10-179-046-13
Sequence 13, Application US/10179046
Publication No. US20030013154A1

GENERAL INFORMATION:

APPLICANT: Crawford, Kenneth

Zator, Isadel
Innis, Michael

TITLE OF INVENTION: Pichia Secretary Leader for Protein
Expression

NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESS:

ADDRESS: Chiron Corporation
STREET: 4560 Horton Street

CITY: Emeryville
STATE: California

COUNTRY: United States
ZIP: 94608

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/179,046

FILING DATE: 25-Jun-2002

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/029,267

FILING DATE: <unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Chung, Ling-Fong

REGISTRATION NUMBER: 36,482

TELECOMMUNICATION INFORMATION:

TELEPHONE: (510) 601-2704

TELEFAX: (510) 655-3542

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 390 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "Synthetic"

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-10-179-046-13

Query Match
Best Local Similarity 35.4%; Score 185.2; DB 9; Length 390;
91.6%; Pred. No. 2.0e-51;
Matches 196; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 GGACCGGAGAGCGCTGCGGTGCTGAGCTGCTGATGCTCTTCAGTCTGCTGTGTGGAGAC 60
Db 160 GGACCGGAGAGCGCTGCGGTGCTGAGCTGCTGATGCTCTTCAGTCTGCTGTGTGGAGAC 219
QY 61 AGGGGCTTTTATTTCACAAAGCCCAAGATACGAGTCCAGCAGTCCGAGGGCAGCTTCAG 120
Db 220 AGGGGCTTTTATTTCACAAAGCCCAAGATACGAGTCCAGCAGTCCGAGGGCAGCTTCAG 279
QY 121 ACAGGCATCGTGATGATGATGCTGCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAC 180
Db 280 ACAGGCATCGTGATGATGATGCTGCTCCGAGCTGTGATCTGAGAGAGGCTGGAGATGTAT 339
QY 181 TGTGCACCCCTCAAGCCGCAAGGCAAGCAGC 214
Db 340 TGTGCACCCCTCAAGCCGCAAGGCAAGCAGC 373

Search completed: June 15, 2003, 20:22:26
Job time: 95.7296 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 15, 2003, 15:41:03 ; Search time 1112.58 Seconds

(without alignments)
7613.181 Million cell updates/sec

Title: US-09-852-261-5

Perfect score: 523

Sequence: 1 ggaacggagagcgtctgcg.....aaatacaagaagtaaacattc 523

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Database :

EST: *
1: em_estdb: *
2: em_estdb: *
3: em_estdb: *
4: em_estdb: *
5: em_estdb: *
6: em_estdb: *
7: em_estdb: *
8: em_estdb: *
9: gb_est1: *
10: gb_est2: *
11: gb_est3: *
12: gb_est4: *
13: gb_est5: *
14: gb_est6: *
15: em_estdb: *
16: em_estdb: *
17: gb_gss: *
18: em_gss: *
19: em_gss: *
20: em_gss: *
21: em_gss: *
22: em_gss: *
23: em_gss: *
24: em_gss: *
25: em_gss: *
26: em_gss: *
27: em_gss: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
C 1	364.8	69.8	558	9	AI503976 vm43d08.x
C 2	363	69.4	623	10	AM146128 um37e10.x
C 3	348.2	66.6	549	9	AI169253 EST215088
C 4	347	66.3	558	9	AI169253 EST215088
C 5	339.2	64.9	816	9	AI119218 ue94h02.x
C 6	334.8	64.0	594	12	BF383724 602044632

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	TITLE	JOURNAL	COMMENT
AI503976	558 bp	mRNA	EST	11-MAR-1999						
vm43d08.x1	Stratagene mouse diaphragm (9937303)	Mus musculus cDNA								
Clone IMAGE:1001007.3	similar to gb:X04482 Mouse mRNA for									
preproinsulin-like growth factor IB (MOUSE);	mRNA sequence.									
AI503976	GI:4401827									
EST.										
house mouse.										
Mus musculus.										
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;										
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.										
1 (bases 1 to 558)										
Marra, M., Hillier, L., Kucaba, R., Martin, J., Beck, C., Wylie, T.,										
Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person										
, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,										
Waterston, R., and Wilson, R.										
Unpublished (1999)										
The WashU-NCI Mouse EST Project 1999										
Contact: Maria M/Mashu-NCI Mouse EST Project 1999										
Washington University School of Medicine										
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA										
Tel: 314 286 1800										
Fax: 314 286 1810										
Email: mouseest@wustl.edu										
This clone is available royalty-free through INL; contact the										
IMAGE Consortium (info@image.llnl.gov) for further information.										

ALIGNMENTS

MG1:565223
This clone was previously sequenced on the 5' end only, this new data is from the 3' end
High quality sequence stop: 440.

FEATURES

Source
Location/Qualifiers
1..558
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:1001007"
/clone_lib="Stratagene mouse diaphragm (#937303)"
/tissue_type="diaphragm"
/dev_stage="adult"
/lab_host="50Lr (kanamycin resistant)"
/note="Organ: diaphragm; Vector: pBluescript SK-; Site: 1; EcoRI; Site: 2; XhoI; Cloned unidirectionally from mRNA prepared from diaphragm muscle. Primer: Oligo dt. Average insert size: 1.5 kb. Uni-ZAP XR Vector: -5' adaptor sequence: 5' GAATTCGGCAGAG 3' -3' adaptor sequence: 5' CTCGAGTTTCTTTTCTTTTCTTTT 3'."
BASE COUNT 103 a 133 c 149 g 173 t
ORIGIN

Query Match
Best Local Similarity 69.8%; Score 364.8; DB 9; Length 558;
Matches 441; Conservative 0; Mismatches 82; Indels 7; Gaps 2;

1 GCACCGGAGACGCTCTGCGTGTGAGTGTGATGCTCTTCACTTGTGTGAGAC 60
|||||
530 GGACAGAGACCCCTTGGGGGCTGAGCTGTGATGCTCTTCACTTGTGTGAGAC 471
61 AGGGGCTTTATTTTAAACAGCCACAGATAGGCTCCAGCAGCGAGGACCTAG 120
|||||
470 AGGGGCTTTATTTTAAACAGCCACAGATAGGCTCCAGCAGCGAGGACCTAG 411
121 ACAGGATCGTGGATGAGTGTCTTCCGAGCTGTATGTAGAGAGCGTGAATGATC 180
|||||
410 ACAGGATCGTGGATGAGTGTCTTCCGAGCTGTATGTAGAGAGCGTGAATGATC 351
181 TGTGACACCCCTTAACCCGCAAGAGCAGCCGCTCCGCTGCCAGCGCCACACGAC 240
|||||
350 TGTGACACCCCTTAACCCGCAAGAGCAGCCGCTCCGCTGCCAGCGCCACACGAC 291
241 ATGCCAGACTCAGAGATATCAGCTCCATCTACCAAGAAATGATGATCTCAGAG 300
|||||
290 ATGCCAGACTCAGAGATATCAGCTCCATCTACCAAGAAATGATGATCTCAGAG 231
301 AAGAGGAAAGAGTACATTTGAGACACAAAGTAGAGGAGTGCAGAAACAAACTA 360
|||||
230 AAGAGGAAAGAGTACATTTGAGACACAAAGTAGAGGAGTGCAGAAACAAACTA 171
361 CAGATGTAGAGAGAGCTCCACGAGACAAATATGCAATATACCGAGATCTTTG 420
|||||
170 CAGATGTAGAGAGAGCTCCACGAGACAAATATGCAATATACCGAGATCTTTG 111
421 CTCTCACAAGTTACTGTAAACATTTGAATACCGCCA-----AAAAATAGTTTATC 474
|||||
110 CTCTCACAAGTTACTGTAAACATTTGAATACCGCCA-----AAAAATAGTTTATC 51
475 ACATTTCAAGAT-GGATTTTCCCATGAAATACCAATTAATTAATGTCATA 523
50 ACATTTCAAGATGGGCAATTTCCCATGAAATTAATTAATTAATTAATTAATC 1

RESULT 2

AM146128 623 bp mRNA linear EST 10-OCT-2000
LOCUS um37eld.x1 sugano mouse embryo mewa Mus musculus cDNA clone
DEFINITION IMAGE:2247498 3' similar to gp:X0462 Mouse mRNA for
p180insulin-like growth factor IB (MOSBY); mRNA sequence.
ACCESSION AM146128
VERSION AM146128.1 GI:6167864
KEYWORDS EST.
SOURCE house mouse.

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 623)
AUTHORS Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wyllie,T.,
Underwood,K., Stepien,M., Theising,B., Allen,M., Bowers,Y., Person
B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Rittler
W., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R.,
Waterston,R. and Wilson,R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)

TITLE
JOURNAL
COMMENT
Contact: Marra M/Mashu-NCI Mouse EST Project 1999
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MG1:1006958

Seq primer: custom primer used
High quality sequence stop: 499.

FEATURES

Source
Location/Qualifiers
1..623
/organism="Mus musculus"
/strain="C57BL/
/db_xref="taxon:10090"
/clone="IMAGE:2247498"
/clone_lib="Sugano mouse embryo mewa"
/dev_stage="embryo, 14 dpc"
/lab_host="DH10B"
/note="Vector: pME18S-FL3; Site: 1: DraIII (CACTGTGTG);
Site: 2: DraIII (CACCATGTG); 1st strand cDNA was primed
with an oligo(dT) primer [ATGTCGCTTTTCTTTTCTTTT];
double-stranded cDNA was ligated to a DraIII adaptor
[TTTGGCTTACTG], digested and cloned into distinct DraIII
sites of the pME18S-FL3 vector (5' site CACTGTGTG, 3' site
CACCATGTG). XhoI should be used to isolate the cDNA
insert. Size selection was performed to exclude fragments
<1.5kb. Library constructed by Dr. Sumio Sugano
(University of Tokyo Institute of Medical Science).
Custom primers for sequencing: 5' end primer
CTCTGCTCTTAAGCTGCG and 3' end primer
CGACTGCACTGAGACCA."

BASE COUNT 123 a 138 c 170 g 191 t 1 others
ORIGIN

Query Match
Best Local Similarity 69.4%; Score 363; DB 10; Length 623;
Matches 433; Conservative 0; Mismatches 90; Indels 6; Gaps 1;

1 GCACCGGAGACGCTCTGCGTGTGAGTGTGATGCTCTTCACTTGTGTGAGAC 60
|||||
541 GGACAGAGACCCCTTTCGGGCTGAGCTGTGATGCTCTTCACTTGTGTGAGAC 482
61 AGGGGCTTTATTTTAAACAGCCACAGATAGGCTCCAGCAGTGTGAGGACCTAG 120
|||||
481 AGGGGCTTTATTTTAAACAGCCACAGATAGGCTCCAGCAGTGTGAGGACCTAG 422
121 ACAGGATCGTGGATGAGTGTCTTCCGAGCTGTATGTAGAGAGCGTGAATGATC 180
|||||
421 ACAGGATCGTGGATGAGTGTCTTCCGAGCTGTATGTAGAGAGCGTGAATGATC 362
181 TGTGACACCCCTTAACCCGCAAGAGCAGCCGCTCCGCTGCCAGCGCCACACGAC 240
|||||
361 TGTGACACCCCTTAACCCGCAAGAGCAGCCGCTCCGCTGCCAGCGCCACACGAC 302
241 ATGCCAGACTCAGAGATATCAGCTCCATCTACCAAGAAATGATGATCTAGAG 300
|||||
301 ATGCCAGACTCAGAGATATCAGCTCCATCTACCAAGAAATGATGATCTAGAG 242
301 AAGAGGAAAGAGTACATTTGAGACACAAAGTAGAGGAGTGCAGAAACAAACTA 360
|||||

Db 241 AGAAGGAAAGAGTACATTGAGAACCCAGTAGAGGAGTCCAGGAACAAGACCTA 182

QY 361 CAGATGTAGAGAGACCCCTTGTGAGAGTGAAGAGACAGCCAGCCAGACCTTTG 420

Db 181 CAGATGTAGAGAGACCCCTTGTGAGAGTGAAGAGACAGCCAGCCAGACCTTTG 122

QY 421 CTCCTCAGAGTACCTGTAAACATTGGATACCCGCCA-----AAAATAGATTGATC 474

Db 121 CTCCTCAGAGTACCTGTAAACATTGGATACCCGCCA-----AAAATAGATTGATC 62

QY 475 ACATTTCAGAGATGGCATTTTCCCAATGAATAACAGATTAACATTC 523

Db 61 ACATTTCAGAGATGGCATTTTCCCAATGAATAACAGATTAACATTC 13

RESULT 3

LOCUS A1169253 549 bp mRNA linear EST 08-JAN-1999

DEFINITION EST215088 Normalized rat kidney, Bento Soares Rattus sp. cDNA clone

ACCESSION A1169253

VERSION A1169253

KEYWORDS EST.

SOURCE EST.

ORGANISM Rattus sp.

RAUUS sp.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

1 (bases 1 to 549)

Lee, N.H., Glodok, A., Chandra, I., Mason, T.M., Quackenbush, J., Kerlavage, A.R. and Adams, M.D.

Rat Genome Project: Generation of a Rat EST (RESE) Catalog & Rat Gene Index

Unpublished (1998)

On Oct 6, 1998 this sequence version replaced gi:3705561.

Other ESTs: TC50779

Contact: Lee, N.H.

The Institute for Genomic Research

9712, Medical Center Drive, Rockville, MD 20850, USA

Tel: (301)-838-3529

Fax: (301)-838-0208

Email: nhlee@tigr.org

Seq primer: M13-21

FEATURES

Source

Location/Qualifiers

1..349

/organism="Rattus sp."

/db_xref="taxon:10118"

/clone="RK1BP33"

/note="Organ: kidney; Vector: pT73pac; Site:1: EcoRI; Site:2: NotI"

BASE COUNT 112 a 140 c 133 g 164 t

ORIGIN

Query Match 66.6%; Score 348.2; DB 9; Length 549;

Best Local Similarity 81.8%; Pred. No. 1.5e-85;

Matches 428; Conservative 0; Mismatches 88; Indels 7; Gaps 2;

QY 8 AGAGCCTCTCGGTGCTGAGCTGTGAGCTCTTCACTGCTGTGAGAGAGGGCT 67

Db 549 AGAGCCTCTCTCGGTGCTGAGCTGTGAGCTCTTCACTGCTGTGAGAGAGGGCT 490

QY 68 TTATATTCAACAGCCACAGATAGGCTCCAGCAGTGGAGAGGACCTCAGACAGGA 127

Db 489 TTATATTCAACAGCCACAGATAGGCTCCAGCAGTGGAGAGGACCTCAGACAGGA 430

QY 128 TCGTGATGAGTCTCTCCGAGCTGTGATCTGAGAGGCTGAGATGTACTGTGAC 187

Db 429 TTTGATGATGAGTCTCTCCGAGCTGTGATCTGAGAGGCTGAGATGTACTGTGAC 370

QY 188 CCTCAAGCCGGAAGAGGAGCCCGCTCCGCTCGGTGCTCCAGAGCCAGACAGATGCCA 247

Db 369 CGCTGAAGCTTACAAAGTACGCTGTTCCATCCGGGCGCCAGGCCACATTGACATGCCA 310

QY 248 AGACTCAGAGTATCAGCCCTCATCTACCAACAGAGAAATGAGTCTCAGAGAGAGA 307

Db 309 AGACTCAGAGTATCAGCCCTCATCTACCAACAGAGAAATGAGTCTCAGAGAGAGA 250

QY 308 AAGGACTACATTGTGAAGAACACAGAGTAGAGAGTGCAGAGAAACAGACTACAGATG 367

Db 249 AAGGAGTACACTTGAAGAACACAGAGTAGAGAGTGCAGAGAAACAGACTACAGATG 190

QY 368 TAGGAGAGCTCTCCAGAGAACAGAGAGGAGGAGCCAGGAGCCCTTGTCTGCA 427

Db 189 TAGGAGAGCTCTCCAGAGAACAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGG 130

QY 428 CAGTTACCTGTAAACATTTGGATACCGGCCA-----AAAATAGATTGATCATTC 481

Db 129 AGCACTGTCAAAACATCGGACACCTGCAATATCATATGATTTAATACCATTC 70

QY 482 AAGAT-GGCATTTTCCCAATGAATAACAGATTAACATTC 523

Db 69 AGAGATGGGCAATTTCCCTCAATGAATAACAGATTAACATTC 27

RESULT 4

LOCUS A1265629 558 bp mRNA linear EST 18-NOV-1998

DEFINITION U04407.x1 Sugano mouse liver mla Mus musculus cDNA clone

ACCESSION A1265629

VERSION A1265629

KEYWORDS EST.

SOURCE EST.

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 558)

Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Matlin, J., Morris, M., Schellberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.

The WashU-HMT Mouse EST Project

Unpublished (1996)

Contact: Maria M/Mouse EST Project

WashU-HMT Mouse EST Project

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: mouseest@wustl.wustl.edu

This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:975225

Seq primer: custom primer used

High quality sequence stop: 495.

FEATURES

Source

Location/Qualifiers

1..558

/organism="Mus musculus"

/strain="C57BL"

/db_xref="taxon:10090"

/clone="IMAGE:1890901"

/note="Organ: liver; Vector: pME18S-FL3; Site:1: DraIII (CACTGATG); Site:2: DraIII (CACTGATG); 1st strand cDNA was primed with an oligo(dT) primer [ATGAGGCTTTTATTTTATTTT]; double-stranded cDNA was ligated to a DraIII adaptor [TGTGGGCTTACTG], digested and cloned into distinct DraIII sites of the pME18S-FL3 vector (5' site CACTGATG, 3' site CACTGATG). XhoI should be used to isolate the cDNA insert. Size selection was

performed to exclude fragments <1.5kb. library constructed by Dr. Sumio Sugano (University of Tokyo Institute of Medical Science). Custom primers for sequencing: 5' end primer CTCTGCTCTAAAGCTGG and 3' end primer CGACCTGACGCTCGAGCACA."

BASE COUNT 106 a 135 c 156 g 161 t

Query Match 66.3%; Score 347; DB 9; Length 558;
Best Local Similarity 82.0%; Pred. No. 3.3e-85;
Matches 414; Conservative 0; Mismatches 85; Indels 6; Gaps 1;

1 GGACCGAGAGCGCTGCGGTGCTGAGTGTGATGCTCTTCAGTGTGTGTGAGAC 60
506 GGACCGAGAGCGCTTGGGGGTGAGTGTGATGCTCTTCAGTGTGTGTGAGAC 447
61 AGGGGCTTTTATTTCAACAAGCCACAGATAGGCTCCAGAGTGGAGGCGACCTGAG 120
446 AGGGGCTTTTATTTCAACAAGCCACAGATAGGCTCCAGAGTGGAGGCGACCTGAG 387
121 ACAGGATCGTGTGATGCTGCTCCGAGGCTGATGTGAGAGGCTGGAGATGATAC 180
386 ACAGGATGTGTGATGCTGCTCCGAGGCTGATGTGAGAGGCTGGAGATGATAC 327
181 TGTGCAACCCCTCAAGCCGGAAGAGCGCCGCTCCGCTGCTCCAGCGCCACACGAC 240
326 TGTGCCCCACTGAGGCTCAAAAAGCGCCGCTCTATCTGCTCCAGCGCCACACTGAC 267
241 ATGCCCCAGATCAGAGATATGAGCTCCTCATCTACCAACAAAGATGAGCTAGAG 300
266 ATGCCCCAGATCAGAGATATGAGCTCCTCATCTACCAACAAAGATGAGCTAGAG 207
301 AGAAGAAAGAGATGATCTTGAAGAACAAAGTAGAGGAGTGGAGAAACAGAACTA 360
206 AGAAGAAAGAGATGATCTTGAAGAACAAAGTAGAGGAGTGGAGAAACAGAACTA 147
361 CAGAGATGAGAGAGACCTTCTGAGAGTGAAGAGAGAGAGCCACCCGAGAGACCTTTG 420
146 CAGAGATGAGAGAGACCTTCTGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 87
421 CTCTGCACAGTACCTGTAAACATTTGAATACCGGCCA-----AAAATAGTTGATC 474
86 CTCTGTGAGCAACCTGTCAAAACATGGAACACCTTACCAATATATATAGTCCATA 27
475 ACATTTCAGAGATGATCTTCCCTCC 499
26 ACATTTCAGAGATGATCTTCCCTCC 2

RESULT 5
A1119218 816 bp mRNA linear EST 02-SEP-1998
LOCUS u94h02.y1 Sugano mouse embryo mewa Mus musculus cDNA clone
DEFINITION IMAGE:1498803.5, similar to gb:X04482 Mouse mRNA for
preproinsulin-1-like growth factor IB (MOUSE);, mRNA sequence.
A1119218.1 GI:3519542
EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 816)
Marras, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Giesel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Stepien, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
The WashU-HMI Mouse EST Project
Unpublished (1996)
Contact: Maria M/Mouse EST Project
Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:936407
Seq primer: custom primer used
High quality sequence stop: 473.
Location/Qualifiers
1. 816
/organism="Mus musculus"
/strain="C57BL"
/db_xref="taxon:10090"
/clone="IMAGE:1498803"
/clone_id="Sugano mouse embryo mewa"
/dev_stage="embryo, 14 dpc"
/lab_host="DH10B"
/note="Vector: pME18S-FL3; Site 1: DraIII (CACTGCTG);
Site 2: DraIII (CACCATG); 1st strand cDNA was primed
with an oligo(dT) primer (ATGAGGCTTTTATTTTATTTT);
double-stranded cDNA was ligated to a DraIII adaptor
(TGTGGCTCACTG), digested and cloned into distinct DraIII
sites of the pME18S-FL3 vector (5' site CACTGCTG, 3' site
CACCATG). XhoI should be used to isolate the cDNA
insert. Size selection was performed to exclude fragments
<1.5kb. Library constructed by Dr. Sumio Sugano
(University of Tokyo Institute of Medical Science).
Custom primers for sequencing: 5' end primer
CTCTGCTCTAAAGCTGG and 3' end primer
CGACCTGACGCTCGAGCACA."

BASE COUNT 230 a 219 c 172 g 187 t 8 others

Query Match 64.9%; Score 339.2; DB 9; Length 816;
Best Local Similarity 81.2%; Pred. No. 5.4e-83;
Matches 389; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

1 GGACCGAGAGCGCTGCGGTGCTGAGTGTGATGCTCTTCAGTGTGTGTGAGAC 60
323 GGACCGAGAGCGCTTGGGGGTGAGTGTGATGCTCTTCAGTGTGTGTGAGAC 382
61 AGGGGCTTTTATTTCAACAAGCCACAGATAGGCTCCAGAGTGGAGGCGACCTGAG 120
383 AGGGGCTTTTATTTCAACAAGCCACAGATAGGCTCCAGAGTGGAGGCGACCTGAG 442
121 ACAGGATCGTGTGATGCTGCTCCGAGGCTGATGTGAGAGGCTGGAGATGATAC 180
443 ACAGGATGTGTGATGCTGCTCCGAGGCTGATGTGAGAGGCTGGAGATGATAC 502
181 TGTGCAACCCCTCAAGCCGGAAGAGAGCGCCGCTCCGCTCCAGCGCCACACCGAC 240
503 TGTGCCCCACTGAGGCTTACAAAAGCGCCGCTCTATCTGCTCCAGCGCCACACTGAC 562
241 ATGCCCCAGAGCTCAGAGTGTGAGGCTCCGCTCTACCAACAAAGATGAGTGTGAGAG 300
563 ATGCCCCAGAGCTCAGAGTGTGAGGCTCCGCTCTATGTGCAACAAAGAGAGAGGCTGCAAG 622
301 AGAAGAAAGAGATGATCTTGAAGAACAAAGTAGAGGAGTGGAGAAACAGAACTA 360
623 AGAAGAAAGAGATGATCTTGAAGAACAAAGTAGAGGAGTGGAGAAACAGAACTA 682
361 CAGAGATGAGAGAGACCTTCTGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 420
683 CAGAGATGAGAGAGACCTTCTGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 742
421 CTCTGCACAGTACCTGTAAACATTTGAATATACCGGCCAATAATAGTTGATCATT 479
743 CTCTGTGAGCAACCTGTCAAAACATGGAACACCTTACCAATATATATAGTCCATA 801

RESULT 6
BF383724

LOCUS BF383724 594 bp mRNA linear EST 27-NOV-2000
 DEFINITION 602044632F1 NCI_CGAP_L19 Mus musculus cDNA clone IMAGE:4194295 5',
 mRNA sequence.
 ACCESSION BF383724
 VERSION BF383724.1 GI:11365029
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 594)
 NIH-MGC http://mgc.nci.nih.gov/.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 CONTACT Robert Strausberg, Ph.D.
 Email: rgs@biml.nhlbi.nih.gov
 Tissue Procurement: Jeffrey E. Green, M.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: L1M9527 row: p column: 08
 High quality sequence stop: 389.
 Location/Qualifiers
 1..594
 /organism="Mus musculus"
 /strain="FVB/N"
 /db_xref="taxon:10090"
 /clone_image="4194295"
 /clone_lib="NCI_CGAP_L19"
 /lab_host="DH10B (TI phage-resistant)"
 /note="Organ: liver; Vector: pCMV-SPORT6; Site: 1; NotI;
 Site: 2; SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.9 kb. Constructed by Life
 Technologies. Note: this is a NCI_CGAP library."
 Technology: Note: this is a NCI_CGAP library."
 BASE COUNT 115 a 162 c 142 g 115 t
 ORIGIN
 Query Match 64.0%; Score 334.8; DB 12; Length 594;
 Best Local Similarity 82.0%; Pred. No. 8.1e-82;
 Matches 400; Conservative 0; Mismatches 82; Indels 6; Gaps 1;
 16 TGGGTTGCTGAGCTGGTGGATGCTCTTCAGTCTGTGTGGAGACAGGGCTTTATTTC 75
 107 TCGGGGCTGAGCTGGTGGATGCTCTTCAGTCTGTGTGGAGACAGGGCTTTATTTC 166
 76 AACAAAGCCACAGATAGCGCTCCAGACGATGGAGGCGACTCAGACAGGATGAT 135
 167 AACAAAGCCACAGCTAGGCTCCAGACGATGGAGGCGACTCAGACAGGATGAT 226
 136 GAGTGTCTCTCCGAGCTGTGATCTGAGAGGCTGAGATGATGACACCCCTCAG 195
 227 GAGTGTCTCTCCGAGCTGTGATCTGAGAGGCTGAGATGATGACACCCCTCAG 286
 196 CCGGAAAGGAGGAGCCGCTCCGTCGCGCCAGGCGCAACCGCATGCCCAACACAG 255
 287 CCGGAAAGGAGGAGCCGCTCCGTCGCGCCAGGCGCAACCGCATGCCCAACACAG 346
 256 AAGTATCAGCTCTACCATCAGACAGAAATGAAGTCTCAGAGAGAGAAAGAGT 315
 347 AAGTATCAGCTCTACCATCAGACAGAAATGAAGTCTCAGAGAGAGAAAGAGT 406
 316 ACATTGGAAGACAGTAGAGGATGAGGAGGAGAAACAGACTACAGATGAGAGA 375
 407 ACATTGGAAGACAGTAGAGGATGAGGAGGAGAAACAGACTACAGATGAGAGA 466
 376 CCCTCTGAGAGAGTAGAAGAGAGACAGCCGAGAGACCTTGTCTGACAGAGTACC 435
 467 GCCTCCACAGAGAGAGAAATGACACATCAGCCGAGAGTCTTGTGCTTGACACACT 526
 436 TGTAAACTTGTGATACCGGCA-----AAAAATAAGTTGATCAGATTTCAAGATGG 489

Db 527 GCATAACATGGAACACCTTACCAATACATATAGTCCATTAACATTAAGATG 586
 QY 490 CATTGCC 497
 Db 587 GCATTGCC 594
 RESULT 7
 AM495481/c
 LOCUS
 DEFINITION 499 bp mRNA linear EST 24-FEB-2000
 UI-M-BH3-ay-g-11-0-UI-s1 NIH_BMAP_M.S4 Mus musculus cDNA clone
 UI-M-BH3-ay-g-11-0-UI 3', mRNA sequence.
 ACCESSION AM495481
 VERSION AM495481.1 GI:7065762
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 499)
 Bonaldo,M.F., Lennon,G. and Soares,M.B.
 Normalization and subtraction: two approaches to facilitate gene
 discovery
 Genome Res. 6 (9), 791-806 (1996)
 9704447
 JOURNAL MEDLINE
 COMMENT
 CONTACT: Chin, H
 National Institute of Mental Health
 6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
 20892-9643, USA
 Tel: 301 443 1706
 Fax: 301 443 9890
 Email: MEST@nhi.nih.gov
 The sequence contained an oligo-dT track that was present in the
 oligonucleotide that was used to prime the synthesis of first
 strand cDNA and therefore this may represent a bonafide poly A
 tail. The sequence tag present in the cDNA between the NotI site
 and the oligo-dT track served to identify it as a clone from the
 normalized pineal glands library cDNA library Preparation: M.B.
 Soares Lab Clone distribution: Researchers may obtain BMAP cDNA
 clones from RESEARCH GENETICS. It should be noted that Bento Soares
 is generating a small number of additional specialized
 non-redundant arrays of BMAP cDNAs whose availability will be
 considered under appropriate and limited collaborative arrangements
 Seq primer: M13 forward
 POLYA=yes.
 Location/Qualifiers
 1..499
 /organism="Mus musculus"
 /strain="G57BL/6J"
 /db_xref="taxon:10090"
 /clone="UI-M-BH3-ay-g-11-0-UI"
 /clone_lib="NIH_BMAP_M.S4"
 /dev_stage="27-32 days"
 /lab_host="DH10B (Life Technologies)"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; Site: 1; Not I; Site: 2; Eco RI; The
 NIH_BMAP_M.S4 library is a subtracted library of a series,
 ultimately derived from a mixture of individually tagged
 normalized libraries from ten regions of the mouse brain
 (cerebellum, brain stems, olfactory bulbs, hypothalamus,
 cortex, amygdala, basal ganglia, pineal gland, striatum,
 hippocampus) after a series of subtractions to reduce the
 representation of cDNAs from which ESTs had already been
 generated. The following serially subtracted libraries
 were generated in this process: NIH_BMAP_M.S4,
 NIH_BMAP_M.S3.3, NIH_BMAP_M.S3.2, NIH_BMAP_M.S3.1,
 NIH_BMAP_M.S2, NIH_BMAP_M.S1. The subtracted library
 cDNA inserts from NIH_BMAP_M.S3.3, NIH_BMAP_M.S3.2, and
 NIH_BMAP_M.S3.1 clones from which 3' ESTs had been derived
 was used as a driver in a hybridization with a pool of
 the NIH_BMAP_M.S3.3, NIH_BMAP_M.S3.2, and NIH_BMAP_M.S3.1

libraries in the form of single-stranded circles. The remaining single-stranded circles (subtracted library) was purified by hydroxyapatite column chromatography, converted to double-stranded circles and electroporated into *D103* bacteria (Life Technologies) to generate the NIH-BMP-34 library. This procedure has been previously described (Bonaldi, Lennon and Soares, Genome Research 1:791-806, 1996).

```
TAG_LIB=NIH_BMAP_M_S4
TAG_TISSUE=pineal-glands
TAG_SEQ=CAGAC"
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BASE COUNT	86 a	112 c	124 g	177 t
ORIGIN				

Query Match	61.6%;	Score 322.2;	DB 10;	Length 499;
Best Local Similarity	82.3%;	Pred. No. 2.3e-78;		
Matches 396;	Conservative	0;	Mismatches 78;	Indels 7;
				Gaps 2

[illegible]

TITLE
JOURNAL
COMMENT

E. Kohu, S. Shint, T. Jackson, Y. Cardenas, M. McCann, R. Waterson, R. and Wilson, R.
The Mashu-NCI Mouse EST Project 1999
Unpublished (1999)
Contact: Maria W/Mashu-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
tel: 314 286 1800

Seq primer: custom primer used
High quality sequence stop: 257.

FEATURES
SOURCE

BASE COUNT	127 a	154 c	175 g	185 t	1 others
ORIGIN					

Query Match	61.3%;	Score 320.8;	DB 9;	Length 642;
Best Local Similarity	80.1%;	Pred. No. 6.2e-78;		
Matches 403;	Conservative 0;	Mismatches 93;	Indels 7;	Gaps 2;

QY 2 GACCAGAGACGCTCTGCGCGTCTAGCTGGGAGATGCTTCAGTTGCTGAGTGGAGACA 61

Db 503 GACCAGAGACCCCTTTGCGGGGCTTAGCTGGTGGTGGCTTCCAGTGTGTGGACCGA 444

QY 62 GGGGCTTTTATTTCAACAGCCACAGATATGCGCTCCAGCATCGAGAGCGACCTCAGA 121

Db 443 GGGGCTTTTCTTCAACAGGCCACAGGCTATGGCTCCAGCATTTGGAGGGCACTCAGA 384

QY 122 CAGGATGTGTGATGATGCTGCTTCGCGG-AGCTGTGATCTGAGAGGCTGGAGATGTAC 180

Db 383 CAGTCAATGTGATGATGATGTGCTCCGGAGGCTGTGATCTGAGAGACTGAGATGTAC 324

QY 181 TGTGACCCCTCAAGCCGGCAAGAGGAGCCCGCTCGGTCCGTCAGGCGCACACCCAG 240

Db 323 TTTGCCCACTGAAAGCCCTACAAAGAGCCCGGCTTATCCGTGCCAGGCGCACACTAG 264

QY 241 ATGCCAAGACTCGAAGATATCAACCTCCATCTACCAACAGAGAAATGAAGTCTCAGAG 300

Db 263 ATGCCAAGACTCGAAGATCCCGCTCCCTATCGACAAACAGAAACGAACTCGAAGG 204

QY 301 ABAAGAAAGGAGTACATTTGAAGAACACACAGTAGAGAGGTGCGAGAAACAGAACTA 360

Db 203 ABAAGAAAGGAGTACATTTGAAGAACACAACTAGAGAGAGTGCAGGAAACAAACTTA 144

QY 361 CAGGATGTAGGAGAGCCCTCTGAGGAGTCAABAAGAGAGCGCCACCCGAGGACCTTTG 420

Db 143 CAGATGTAGGAGAGGCTCCACAGGAGCGAAGAAATGCCACATCAACCCGAGGATCTTTG 84


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/dev.stage="20 week post conception fetus"
/lab.host="DH10b (ampicillin resistant)"
/Note="Organ: Liver and Spleen; Vector: pT73D (Pharmacia)
with a modified polylinker; Site_1: Pac I; Site_2: Eco RI;
This is a subtracted version of the original Soares fetal
liver spleen INRLS library. 1st strand cDNA was primed
with a Pac I - oligo(dT) primer [5',
AACGAGAGATTAATTAAGATCTTTTCTTTTCTTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia) digested with Pac I and cloned into the Pac I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M.Patima Bonaldo."
BASE COUNT      135 a      152 c      131 g      156 t      1 others
ORIGIN
Query Match      60.6%; Score 316.8; DB 9; Length 575;
Best Local Similarity 83.8%; Pred.No. 7.6e-77;
Matches 428; Conservative 0; Mismatches 28; Indels 55; Gaps 4;
QY 16 TGGGCTGTGAGCTGTGATGCTCTTCAGTTCGTGTGAGAGACAGGGGCTTTTATTC 75
    |||||
Db 551 TGGGGGGCTGAGCTGTGATGCTCTTCAGTTCGTGTGAGAGACAGGGGCTTTTATTC 492
QY 76 AACCAAGCCACAGATACCGCTCCAGAGCTCGAGAGGCACTTCAGACAGGATCGTGAT 135
    |||||
Db 491 AACCAAGCCACAGAGGATATGCTCCAGAGCTCGAGAGGCGCCCTCAGACAGGATCGTGAT 432
QY 136 GAGTGTGCTTCGAGCTGTGATCTGAGAGGCTGAGAGTGTACTGTGACCCCTCAAG 195
    |||||
Db 431 GAGTGTGCTTCGAGCTGTGATCTGAGAGGCTGAGAGTGTACTGTGACCCCTCAAG 372
QY 196 CCGGCAAGGACGCCCGCTCCGTCGCCAGGCCACACCGAGATGCCCAAGACTGAG 255
    |||||
Db 371 CCGGCAAGGACGCCCGCTCCGTCGCCAGGCCACACCGAGATGCCCAAGACTGAG 312
QY 256 AAGTATCAGCTCTCATCTTACCAAGAAATGAGTGTCAAGAGAGAGAGAAAGAGT 315
    |||||
Db 311 -----AAGGAGT 304
QY 316 ACATTGGAAGACACAGATAGAGGAGTGACAGAAACAGAACTACAGATGTAGAGA 375
    |||||
Db 303 ACATTGGAAGACACAGATAGAGGAGTGACAGAAACAGAACTACAGATGTAGAGA 244
QY 376 CCTCTGTGAGAGTGAAGAGACAGGCCACCGGACCGCTTGTCTGTGAC-AGTTAC 434
    |||||
Db 243 CCTCTGTGAGAGTGAAGAGTGAAGAGTGAAGAGTGAAGAGTGAAGAGTGAAG 184
QY 435 CTG-TAAGCATTTGATACCGGCCCAAAATTAAGTTGATCAGATTTCAAGAT-GGCAT 492
    |||||
Db 183 CTGTTAACTTTGGAACACCTTACCAAAATTAAGTTGATTAACATTTAAAGATGGCGCT 124
QY 493 TTCCCCCATGAAATACACAGTAAACATTC 523
    |||||
Db 123 TTCCCCCATGAAATACACAGTAAACATTC 93

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RESULT 11
A1169770/c 468 bp mRNA linear EST 20-JAN-1999
LOCUS A1169770
DEFINITION EST15569 Normalized rat liver, Bento Soares Rattus sp. cDNA clone
RL107 3' end, mRNA sequence.
ACCESSION A1169770
VERSION A1169770.1 GI:3709810
KEYWORDS EST.
SOURCE Rattus sp.
ORGANISM Rattus sp.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 468)
Lee,N.H., Glodex,A., Chandra,I., Mason,T.M., Quackenbush,J.,
Kerlavage,A.R. and Adams,M.D.

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TITLE Rat Genome Project: Generation of a Rat EST (RESt) Catalog & Rat
JOURNAL Gene Index
COMMENT Unpublished (1998)
Other-ESTs: TC50779
Contact: Lee, NH
The Institute for Genomic Research
9712, Medical Center Drive, Rockville, MD 20850, USA
Tel: (301)-838-3529
Fax: (301)-838-0208
Email: nhlee@igf.org
Seq primer: M13-21.
FEATURES
source
1..468
location/Qualifiers
1..468
/organism="Rattus sp."
/db_xref="ATCC (Inhost):2027570"
/db_xref="taxon:10118"
/clone="RL107"
/clone_11b="Normalized rat liver, Bento Soares"
/Note="Organ: liver; Vector: pT73pac; Site_1: EcoRI;
Site_2: NotI"
BASE COUNT      85 a      115 c      119 g      149 t
ORIGIN
Query Match      59.1%; Score 309.2; DB 9; Length 468;
Best Local Similarity 81.8%; Pred.No. 9e-75;
Matches 383; Conservative 0; Mismatches 78; Indels 7; Gaps 2;
QY 63 GGGCTTTTATTTCACACAGCCACAGATACGCTCCAGACATGCGAGGCGACCTAGAC 122
    |||||
Db 468 GGGCTTTTACTTCAACAGCCACAGGCTATGCTCCAGATTCGAGAGGCGACCGAC 409
QY 123 AGGATGTGATAGTGTGCTTCCGAGCTGTGATGTAGAGAGCTGAGATGTACTG 182
    |||||
Db 408 GGGATGTGATAGTGTGCTTCCGAGCTGTGATGTAGAGAGCTGAGATGTACTG 349
QY 183 TGCACCCCTCAAGCGGCAAGAGGAGCGCCCTCCGTCGTCGCGACGCGCACACGACAT 242
    |||||
Db 348 TGCCTCCCTGAAGGCTCAAAAGTCAGCTCGTTCATCCGCGCCAGCGCACACTGACAT 289
QY 243 GCCCAAGCTCAGAGATATCAGCTCCATCTTACCAACAGAAATGAGTCTCAGAGGAG 302
    |||||
Db 288 GCCCAAGCTCAGAGATATCAGCTCCATCTTACCAACAGAAATGAGTCTCAGAGGAG 229
QY 303 AAGGAAGAGATGATCTTGAAGACACAGTGAAGAGGAGTGAAGAGGAGTGAAG 362
    |||||
Db 228 AAGGAAGAGATGATCTTGAAGACACAGTGAAGAGGAGTGAAGAGGAGTGAAG 169
QY 363 GGATGTGAGAGAGCCCTTGTGAGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAG 422
    |||||
Db 168 GATGTGTGAGAGAGCCCTCCGAGAGACAGAAATGCCACGCTCACCGCAAGATCTTGTCT 109
QY 423 CTGACAGTTACCTGTAAACATTTGAATACCGGCA-----AAAATAGTTTGTATCAG 476
    |||||
Db 108 GCTTGAACACCTGTGAACATCGGAACACCTGCCAAATATCATATGATGTTCAATAC 49
QY 477 ATTTCAGAT-GGCATTTTCCCATGAATACAGTAAACATTC 523
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Db 48 ATTTCAGATGGGCAATTTCCCTCAATGAATACAGTAAACATTC 1

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RESULT 12
AA542914/c 498 bp mRNA linear EST 19-AUG-1997
LOCUS AA542914
DEFINITION n198c10.s1 NCI CGAP_P21 Homo sapiens cDNA clone IMAGE:984882 3'
similar to gb:X57025.fna1 INSULIN-LIKE GROWTH FACTOR IA PRECURSOR
(HUMAN); mRNA sequence.
ACCESSION AA542914
VERSION AA542914.1 GI:2291394
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

```


DB 497 ACAGCATGTGTGATGAGTGTGCTTCGGAGCTGTATCTGANGAAGACTGGANATTTAC 556
QY 181 TGTGACACCCCTCAAGCCGCAAGACAGCCGCTCCGTCGCCAGCCACCCAGC 240
DB 557 TGTGCCCCACAGGAGCTACANNAAGAGCCGCTCTATCCGTGCCAGCCGACACTGAC 616
QY 241 ATGCCCAAGCTCAGAGATATCAGCTTCATCTCCCAAGCAAGAAATGAGTCTCAGAG 300
DB 617 ATGCNNAGACTCAGAGTCCCGCTNCCTATCGCANNAAAGCAAGAAAGAGCTTGACAG 676
QY 301 AGAAGGAAGAGTACATTTGGAAGACACAGATGAGGAGTGCAGAGAAACAAGACTA 360
DB 677 GAGAGGAGAGGAGTACATTTGAGAGACACAGTNGAGAGAGTGCAGAGAAACAAGACTA 736
QY 361 CAGAGTATGAGGAACACCTCTGTGAGAGTGAAGAGACAGCCAGCCAGGACCTTTG 420
DB 737 CCAATGTATGAGAGAGCTTC--AACCAGAGAGAAATGACATCACCAGGAGATCTTTG 794
QY 421 CTCTGACAGTTACCTGTAAACATTTGGAATACCGGCCA---AAATATAGTTGATCAG 476
DB 795 CT-CTTGAGCTACTGCAAAACATGCAACCACTTACCAATTAATATAGTTCAATATA 853
QY 477 ATTCAAGATGAGTATTCCTCCCATGAA 505
DB 854 CATCAAGATGAGTATTCCTCCCATGAA 882

RESULT 14
BQ200567/c 653 bp. mRNA linear EST 02-MAY-2002

DEFINITION UI-R-D21-cne-a-18-0-UI.s1 UI-R-D21 Rattus norvegicus cDNA clone
UI-R-D21-cne-a-18-0-UI 3', mRNA sequence.

ACCESSION BQ200567
VERSION BQ200567.1 GI:20417032

KEYWORDS EST.
SOURCE Norway rat.
ORGANISM Rattus norvegicus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE 1 (bases 1 to 653)
AUTHORS Bonaldo, M.F., Lennon, G. and Soares, M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene
discovery

JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477

COMMENT Contact: Soares, MB
Program for Rat Gene Discovery and Mapping
University of Iowa
451 Eckstein Medical Research Building Iowa City, IA 52242, USA
Tel: 319 335 8250
Fax: 319 335 9565

Email: msosares@blue.weeg.uiowa.edu
The sequence contained an oligo-dT track that was present in the
oligonucleotide that was used to prime the synthesis of first
strand cDNA and therefore this may represent a bonafide poly A
tail. The sequence tag present in the cDNA between the NotI site
and the oligo-dT track served to verify it as a clone from the
normalized cartilaginous tumor library cDNA library preparation:
M.B. Soares Lab Clone distribution: clones will be available
through Research Genetics (www.resgen.com) The following repetitive
elements were found in this cDNA sequence: 1-43,
>AT-rich#low-complexity 118-164, >POLY_Asimple_repeat
Seq primer: M13 Forward
POLYA=Yes.

FEATURES
Source Location/Qualifiers

1..653
/organism="Rattus norvegicus"
/strain="Sprague-Dawley"
/db_xref="taxon:10116"
/clone="UI-R-D21-cne-a-18-0-UI"
/clone_lib="UI-R-D21"

/tissue_type="Chondrosarcoma"
/dev_stage="37 days"
/lab_host="DH10B (Life Technologies)"
/note="Organ: Spine; Vector: pRT30-Pac (Pharmacia) with a
modified polylinker; Site:1: Not I; Site:2: Eco RI;
UI-R-D21 is a normalized cDNA library containing the
following tissue(s): Swam Rat Chondrosarcoma. The library
was constructed according to Bonaldo, Lennon and Soares,
Genome Research, 6:791-806, 1996. First strand cDNA
synthesis was primed with an oligo-dT primer containing a
Not I site. Double stranded cDNA was ligated to an EcoR I
adaptor, digested with Not I, and cloned directionally
into pRT30-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
CATCTTTGTA. The Rat cartilaginous tumor tissue was
provided by Dr Jeff Stevens at the University of Iowa.
TAG LIB=UI-R-D21
TAG_TISSUE=cartilaginous tumor
TAG_SEQ=CATTCTTGA

BASE COUNT 134 a 137 c 137 g 245 t
ORIGIN
Query Match 56.7%; Score 296.4; DB 14; Length 653;
Best Local Similarity 81.9%; Pred No. 3.5e-71;
Matches 380; Conservative 0; Mismatches 76; Indels 8; Gaps 3;

QY 67 TTTTATTTCACAGCCACAGATAGCGCTCCAGACATCGAGAGGACCTGACAGAGC 126
DB 653 TTTTATTTCACAGCCACAGATAGCGCTCCAGACATCGAGAGGACACAGAGAGC 594
QY 127 ATCGTGATGATGCTGCTCCGAGAGCTGATCTGAGAGAGCTGAGATGATCTGCA 186
DB 593 ATTGTGATGATGCTGCTCCGAGAGCTGATCTGAGAGAGCTGAGATGATCTGCT 535
QY 187 CCCCTCAAGCCGCAAGAGCAGCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 246
DB 534 CCGCTGAAGCCCTCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 475
QY 247 AAGACTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 306
DB 474 AAGACTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 415
QY 307 AAGAGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 366
DB 414 AAGAGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 355
QY 367 GTAGAGAGAGCTTGTGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 426
DB 354 GTAGAGAGAGCTTGTGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 295
QY 427 ACAGTTACCTGTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
DB 294 GAGAGAGAGCTTGTGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 235
QY 481 CAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 533
DB 234 CAGAGATGAGAGCTTGTGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 191

RESULT 15
AA913900/c

DEFINITION AA913900 527 bp. mRNA linear EST 24-SEP-1998
O135905.82 Soares-NFL.T.GBC.St Homo sapiens cDNA clone
IMAGE:1525496 3' similar to gb:X57025.fna1 INSULIN-LIKE GROWTH
FACTOR IA PRECURSOR (HUMAN);, mRNA sequence.

ACCESSION AA913900
VERSION AA913900.1 GI:3053292
KEYWORDS EST.
SOURCE human
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

